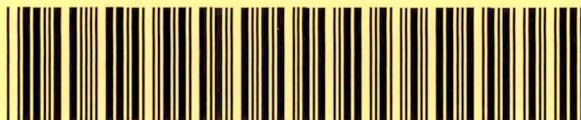


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DocumentID NONCD0002845

Site Name CLAWSON RADIATOR (FORMER)

DocumentType Site Assessment Rpt (SAR)

RptSegment 1

DocDate 11/17/2000

DocRcvd 11/17/2000

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AccessLevel PUBLIC

Division WASTE MANAGEMENT

Section SUPERFUND

Program IHS (IHS)

DocCat FACILITY

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NC DEPT. OF ENVIRONMENT  
AND NATURAL RESOURCES  
MOORESVILLE REGIONAL OFFICE

BROWNFIELDS AGREEMENT ASSESSMENT  
FORMER CLAWSON RADIATOR  
EAST PARK AVE.  
CHARLOTTE, NC

STATE FILE

*Prepared For:*

Mr. Gaines Brown  
Gaines Brown Design  
1515 South Tryon St.  
Charlotte, NC 28203  
&  
City of Charlotte

NONCD 0002 845

*Prepared By:*

Boyle Consulting Engineers, PLLC  
Charlotte, North Carolina

November 17, 2000  
BCE Projects  
97-037-06 & 97-037-08

# **BOYLE CONSULTING ENGINEERS, PLLC**

Environmental, Geotechnical, and Foundation Engineering

November 17, 2000

810 Tyvola Rd., Ste. 126  
Charlotte, NC 28217  
Phone: (704) 676-0778  
Fax: (704) 676-0596

Mr. Gaines Brown  
Gaines Brown Design  
1515 South Tryon St.  
Charlotte, NC 28203

Subject: **Brownfields Agreement Assessment**  
**Clawson Property**  
**East Park Avenue**  
**Charlotte, North Carolina**  
**BCE Projects 97-037-06 & 97-037-08**

Dear Mr. Brown:

In accordance with our proposal 97-036-06R3 dated January 14, 2000 and work authorization 97-037-08 dated July 7, 2000, Boyle Consulting Engineers, PLLC (BCE) is pleased to provide you with this report for the referenced site. This report summarizes the field activities performed, analytical/ testing results and our conclusions. This report is to be used by Gaines Brown Design, the City of Charlotte, NCDENR and designated legal representatives. It is not intended for use by any third party without express written consent of BCE.

## **Project Background Information**

BCE has performed several phases of environmental assessment work at the former Clawson Radiator repair shop (hereafter, the "Clawson Property") from May through September 1997. The Clawson property had apparently been impacted by previous releases of contaminants associated with radiator repair shop activities. The primary impacts consisted of lead-contaminated soil located near a previous radiator wash tank and solvent-impacted groundwater. This previous assessment work was performed on behalf of Mr. Gaines Brown, as part of a due diligence effort to purchase and redevelop the property. BCE subsequently issued a Remedial Action Plan (RAP, dated June 8, 1998) which was submitted to Mr. Bruce Nicholson, NCDENR-Superfund Section as part of a Brownfields Agreement submittal.

The RAP recommended that near-surface lead-contaminated soils and soils impacted by plumbing leaks beneath the building be removed and appropriately treated/disposed off-site. As part of the Brownfields agreement, confirmatory soil sampling needed to be performed to document the "quality" of the soils located beneath the former radiator shop plumbing, near the previous radiator wash tank, and in the area of LOC 5 (identified in Figure 1).

### **Field Activity**

On June 15, 2000 BCE contracted with Geologic Exploration to advance six temporary soil borings utilizing push-probe technology at NCDENR determined locations across the subject property as part of a Brownfields Agreement Assessment (Figure 1). Three borings (GP-1 to GP-3) were advanced at the approximate floor drain locations in the former radiator shop. Boring depths ranged from four feet to nine feet to residual soils. Three other borings (GP-4 to GP-6) were advanced in the approximate location of the former plumbing pipe located southwest of the shop. Boring depths in this area were six feet to residual soils. Soil samples were obtained from the bottom of each boring. The static groundwater depths were determined from previously installed groundwater monitoring wells and ranged from 9 to 12 feet below ground surface. The probe stems and samplers were decontaminated between borings utilizing a steam cleaner. Soil samples were analyzed for volatile organic compounds (VOC's) (EPA Method 8260) and lead (EPA Method 6010).

In addition, five hand auger borings (HA-1 to HA-5) were advanced to six inches and two feet (below ground surface) in areas previously identified with lead contamination near the previous radiator wash tank, and in the area of LOC 5 (Figure 1). Utilizing latex gloves, BCE obtained all soil samples directly from the auger and placed them in laboratory supplied containers. The containers were placed on ice for transport to a state certified laboratory. The analytical results and chain of custody are attached to this letter report (Appendix A). Several of the hand-auger samples had lead at concentrations exceeding the state allowed maximum amount of 400 mg/kg (Reference: Inactive Hazardous Sites Program, *Guidelines for Assessment and Cleanup*, dated July 1997, prepared by DENR). The results are tabulated below:

**Table 1**  
**Lead in Soil (EPA Method 6010)**  
**Sampling Date June 15, 2000**  
**BCE Project 97-037-06**  
**(mg/kg)**

Sample	Lead	Soil Remediation Goal (RG)* (mg/kg)	Location	Depth
GP-1	40	400	Former Floor Drains	4'
GP-2	1.8			9'
GP-3	1.6			6'
GP-4	100		Former Plumbing Pipe	1.5'
GP-5	5.1			6'
GP-6	ND			6'
HA-1A	1100		Former Radiator Wash Tanks	6"
HA-2A	470			6"
HA-3A	1500			6"
HA-4A	130			6"
HA-1B	5.5			2'
HA-2B	5.0			2'
HA-3B	6.8			2'
HA-4B	100			2'
HA-5A	880	▼		6"
HA-5B	10			2'

ND= Not Detected

Note: Sampler at GP-4 entered top of full heating oil underground storage tank (UST).

\* Inactive Hazardous Sites Program, *Guidelines for Assessment and Cleanup*, dated July 1997, prepared by DENR

**Table 2**  
**Soil Analytical Results/ Volatile Organics by EPA Method 8260**  
**Sampling Date June 15, 2000**  
**BCE Project 97-037-06**  
**(mg/kg)**

Constituent	GP-4
Naphthalene	7.0
1,2,4, Trimethylbenzene	8.9

Note: Sampler at GP-4 entered top of full heating oil underground storage tank (UST).

### **Hazardous Waste Determination**

Lead was detected in concentrations exceeding the state reportable levels in the upper six inches of soil for all of the hand auger locations except HA-4A (Table 1). Two of the samples with the highest concentrations of lead were tested using Toxicity Characteristic Leaching Procedure (TCLP) methods to see if they classified as (RCRA) hazardous waste. Test results indicated that both samples exceeded the RCRA threshold of 5.0 mg/L and thus, would be considered hazardous waste. The analytical results are attached to this letter report (Appendix B).

### **Remediation Activities and Post Remediation Testing**

The lead-contaminated soil was removed from identified areas on the site by an outside contractor and disposed of off-site in accordance with state and federal regulations for hazardous waste. The contaminated soil was undercut and removed to a depth of approximately one-foot. Following several remediation attempts, confirmatory sampling was conducted by BCE on July 28, 2000, August 23, 2000 and October 16, 2000 to determine if the contaminated soil had been adequately removed. BCE hand-augered down to six inches in the areas we previously tested. Test results from HA-4 and HA-5 indicated lead concentrations exceeding the RG for the first two sampling events. However, cleanup levels appear to have been met on the third sampling event. The analytical results and chain of custody are attached to this report (Appendices D-F).

The results are tabulated below:

**Table 3**  
**Additional Soil Sampling and Analysis**  
**Lead in Soil (EPA Method 6010)**  
**BCE Project 97-037-08**

Sample	Lead 7/28/00	Lead 8/23/00	Lead 10/16/00	Soil Remediation Goal (RG) (mg/kg)	Location	Depth
HA-1	4.8	-	-	400	Former Radiator Wash Tanks	6"
HA-2	46	-	-			6"
HA-3	170	-	-			6"
HA-4	1800	940	58			6"
HA-5	770	570	170		LOC 5	6"

### **Heating Oil Underground Storage Tank (UST) Discovery**

During Geoprobe™ sampling activities, a heating oil underground storage tank was discovered 1.5 feet below the ground surface at GP-4 (Figure 1). Apparently, the 500-gallon tank was associated with the former radiator shop building. The tank was full of fuel oil/water mix and had several holes at the bottom of the tank due to corrosion. The tank and approximately 40 cubic yards of contaminated soil were removed by Haz Mat and disposed of off-site. On July 7, 2000 BCE obtained soil samples from each end of the excavation bottom at approximately ten feet below grade (Figure 1). Samples were analyzed for diesel range (EPA Method 3550) and gasoline range (EPA Method 5030) constituents. The analytical results and Chain of Custody are attached to this letter report (Appendix C). Sample results are summarized in Table 4 below:

**Table 4**  
**Soil Analytical Results/ by EPA Method 3550/5030**  
**BCE Project 97-037-08**

Sample	Method 3550 (mg/kg)	Method 5030 (mg/kg)	Action Level (mg/kg)
S-1	2600	520	40
S-2	8200	910	40

### **Comments and Recommendations**

Test results from the residual soil beneath the floor drains and select plumbing pipe areas did not reveal contamination from these former potential sources. Initial soil samples from areas located west of the former radiator shop indicated lead contamination exceeding the Remediation Goal for lead. After several phases of remediation, cleanup levels for lead appear to have been met at the locations tested. The soil samples collected from the excavation of the 500-gallon heating oil tank indicate that contamination exceeding state action levels still exists on the site at a depth of approximately 10 feet. Groundwater does not appear to have been significantly impacted by the apparent release of petroleum from the tank, based on prior work we have done on the site (Report of Phase III Environmental Site Assessment, dated September 17, 1997).

**Closing**

We appreciate the opportunity to provide our services on this project. Please contact us should you have any questions pertaining to this report.

Sincerely,

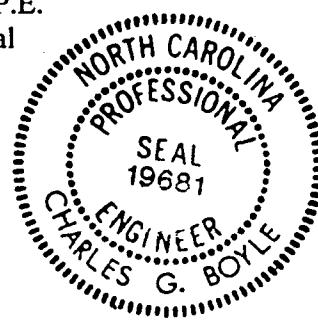
**BOYLE CONSULTING ENGINEERS, PLLC**



Brad Mercure, E.I.  
Project Engineer



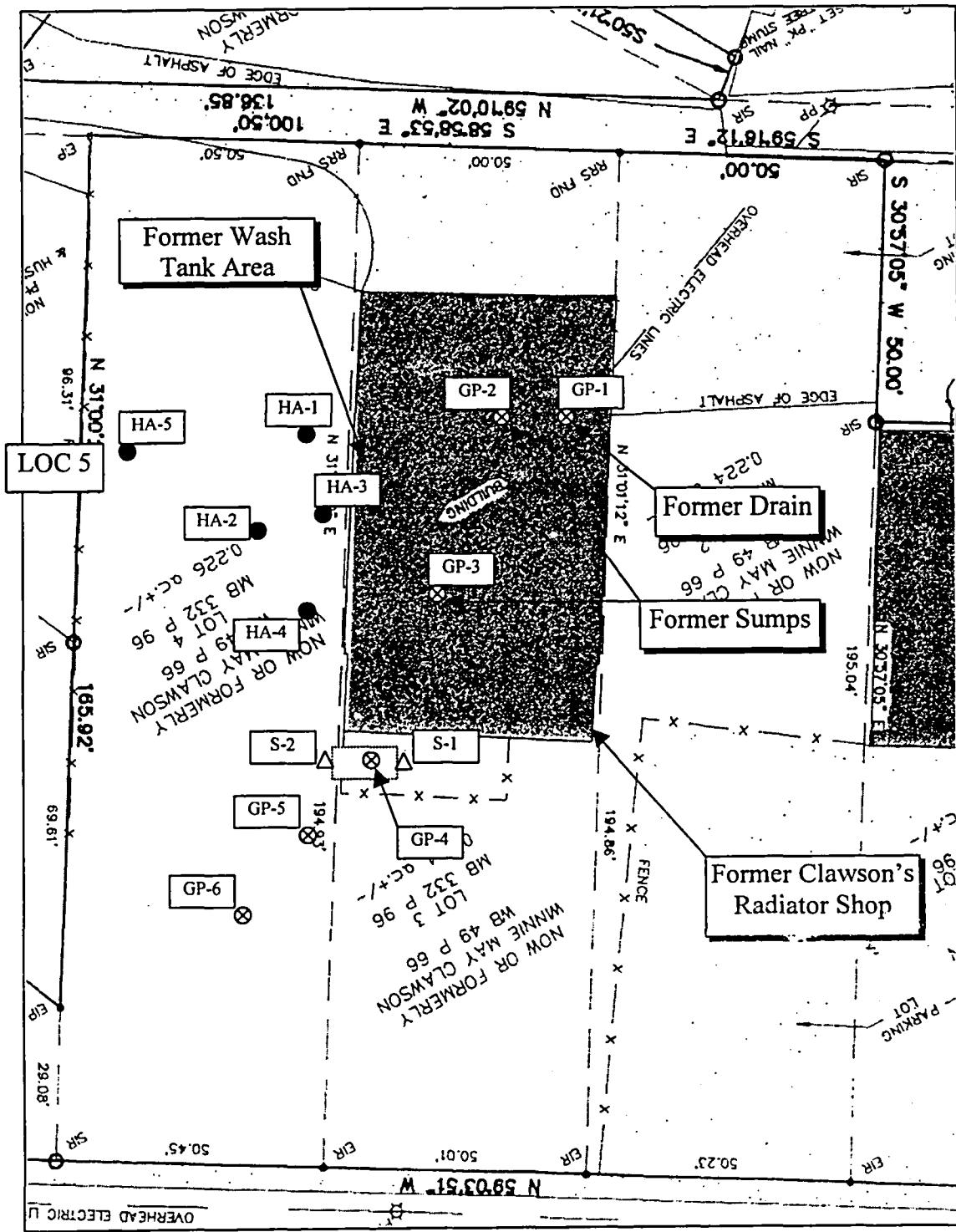
Charles G. Boyle P.E.  
Managing Principal  
NC19681



**Attachments:**

- Figure 1: Sample Location Plan
- Appendix A: Sampling Event - June 15, 2000
- Appendix B: Hazardous Waste Determination
- Appendix C: Tank Excavation Sampling – July 7, 2000
- Appendix D: Confirmatory Sampling – July 28, 2000
- Appendix E: Confirmatory Sampling – August 23, 2000
- Appendix F: Confirmatory Sampling – October 16, 2000

cc: Mr. Bruce Nicholson, NCDENR  
Mr. Tom Warshauer, City of Charlotte Eng. Dept.  
Ms. Susan Cooper, Kilpatrick Stockton, LLP



**BOYLE CONSULTING ENGINEERS, PLLC**  
Environmental, Geotechnical, and Foundation Engineering

Sample Location Plan  
Former Clawson Radiator.  
Charlotte, North Carolina  
BCE Project 97-037-06 & 97-037-08

**APPENDIX A**  
**SAMPLING EVENT – June 15, 2000**



Pace Analytical Services, Inc.  
9800 Kinney Avenue, Suite 100  
Huntersville, NC 28078  
Phone: 704.875.9092  
Fax: 704.875.9091

June 21, 2000

Mr. Chuck Boyle  
Boyle Consulting Engineers  
810 Tyvola Rd.  
Suite 126  
Charlotte, NC 28217

RE: Pace Project Number: 9214808  
Client Project ID: Clawson's/97-037-06

Dear Mr. Boyle:

Enclosed are the results of analyses for sample(s) received by the laboratory on June 15, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Sherri Howard".

Sherri Howard  
Project Manager

Enclosures

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
NC 99006

## REPORT OF LABORATORY ANALYSIS

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KY Drinking Water 90090  
TN UST List  
VA Drinking Water 213

DATE: 06/21/00

PAGE: 1

Boyle Consulting Engineers  
10 Tyvola Rd.  
Suite 126  
Charlotte, NC 28217

Pace Project Number: 9214808

Client Project ID: Clawson's/97-037-06

Attn: Mr. Chuck Boyle  
Phone: (704)676-0778

All results are reported on a dry weight basis

Sample No:	921045902	Date Collected:	06/15/00	Matrix:	Soil
Client Sample ID:	HA-1A	Date Received:	06/15/00		
Parameters	Results	Units	PRL	App. DF	Analyzed
					Analyst
					CAS#
					Footnotes
Metals					
Metals, Trace ICP	Method: EPA 6010			Prep Method: EPA 3050	
Lead	1100	mg/kg	0.57	06/19/00	RWF 7439-92-1
Date Digested				06/19/00	
Percent Moisture	Method: % Moisture			Prep Method:	
Percent Moisture	8.1	%	0.92	06/21/00	YMH

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Pace Project Number: 9214808

Client Project ID: Clawson's/97-037-06

Sample No:	921045951	Date Collected:	06/15/00	Matrix:	Soil
Client Sample ID:	HA-1B	Date Received:	06/15/00		
Parameters	Results	Units	PRL	App. DF	Analyzed Analyst CAS# Footnotes
Metals					
Metals. Trace ICP		Method: EPA 6010			Prep Method: EPA 3050
Lead	5.5	mg/kg	0.54	0.91	06/19/00 RWF 7439-92-1
Date Digested					06/19/00
Chemistry					
Percent Moisture		Method: % Moisture			Prep Method:
Percent Moisture	15.4	%		0.85	06/21/00 YMH

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Pace Analytical Services, Inc.  
9800 Kincey Avenue, Suite 100  
Huntersville, NC 28078  
Phone: 704.875.9092  
Fax: 704.875.9091

DATE: 06/21/00  
PAGE: 3

Pace Project Number: 9214808  
Client Project ID: Clawson's/97-037-06

Sample No:	921045969	Date Collected:	06/15/00	Matrix:	Soil
Client Sample ID:	HA-2A	Date Received:	06/15/00		
<hr/>					
Parameters	Results	Units	PRL	App. DF	Analyzed Analyst CAS# Footnotes
Metals					
Metals, Trace ICP		Method: EPA 6010		Prep Method: EPA 3050	
Lead	470	mg/kg	0.53	06/19/00 RWF	7439-92-1
Date Digested				06/19/00	
Chemistry					
Percent Moisture		Method: % Moisture		Prep Method:	
Percent Moisture	12.1	%	0.88	06/21/00 YMH	

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NC Drinking Water 37706  
NC 99006

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Pace Project Number: 9214808

Client Project ID: Clawson's/97-037-06

Pace Sample No:	921045977	Date Collected:	06/15/00	Matrix:	Soil
Client Sample ID:	HA-2B	Date Received:	06/15/00		
Parameters	Results	Units	PRL	App. DF	Analyzed Analyst CAS# Footnotes
Metals					
Metals, Trace ICP		Method: EPA 6010			Prep Method: EPA 3050
Lead	5.0	mg/kg	0.44	0.79	06/19/00 RWF 7439-92-1
Date Digested					06/19/00
Percent Chemistry					
Percent Moisture		Method: % Moisture			Prep Method:
Percent Moisture	10.4	%		0.90	06/21/00 YMH

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Pace Project Number: 9214808

Client Project ID: Clawson's/97-037-06

Sample No:	921045985	Date Collected:	06/15/00	Matrix:	Soil
Client Sample ID:	HA-3A	Date Received:	06/15/00		
Parameters	Results	Units	PRL	App. DF	Analyzed Analyst CAS# Footnotes
Metals					
Metals, Trace ICP		Method: EPA 6010		Prep Method: EPA 3050	
Lead	1500	mg/kg	0.65	06/19/00 RWF	7439-92-1
Date Digested				06/19/00	
Chemistry					
Percent Moisture		Method: % Moisture		Prep Method:	
Percent Moisture	20.3	%	0.80	06/21/00 YMH	

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Pace Project Number: 9214808  
Client Project ID: Clawson's/97-037-06

Sample No:	921045993	Date Collected:	06/15/00	Matrix:	Soil
Client Sample ID:	HA-3B	Date Received:	06/15/00		
<hr/>					
Parameters	Results	Units	PRL	App. DF	Analyzed Analyst CAS# Footnotes
Metals					
Metals, Trace ICP		Method: EPA 6010			Prep Method: EPA 3050
Lead	6.8	mg/kg	0.63	1.04	06/19/00 RWF 7439-92-1
Date Digested					06/19/00
Chemistry					
Percent Moisture		Method: % Moisture			Prep Method:
Percent Moisture	17.1	%		0.83	06/21/00 YMH

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Pace Project Number: 9214808

Client Project ID: Clawson's/97-037-06

Sample No:	921046009	Date Collected:	06/15/00	Matrix:	Soil
Client Sample ID:	HA-4A	Date Received:	06/15/00		
Parameters	Results	Units	PRL	App. DF	Analyzed Analyst CAS# Footnotes
Metals					
Metals, Trace ICP		Method: EPA 6010			Prep Method: EPA 3050
Lead	130	mg/kg	0.44	0.78	06/19/00 RWF 7439-92-1
Date Digested					06/19/00
Chemistry					
Percent Moisture		Method: % Moisture			Prep Method:
Percent Moisture	11.9	%		0.88	06/21/00 YMH

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Pace Project Number: 9214808

Client Project ID: Clawson's/97-037-06

Sample No:	921046017	Date Collected:	06/15/00	Matrix:	Soil
Client Sample ID:	HA-4B	Date Received:	06/15/00		
<hr/>					
Parameters	Results	Units	PRL	App. DF	Analyzed
					Analyst
					CAS#
					Footnotes
<hr/>					
Metals, Trace ICP		Method: EPA 6010		Prep Method: EPA 3050	
Lead	100	mg/kg	0.57	06/19/00	RWF 7439-92-1
Date Digested				06/19/00	
Chemistry					
Percent Moisture		Method: % Moisture		Prep Method:	
Percent Moisture	8.2	%	0.92	06/21/00	YMH

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PC Drinking Water 37706  
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DATE: 06/21/00

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Pace Project Number: 9214808

Client Project ID: Clawson's/97-037-06

Sample No:	921046025	Date Collected:	06/15/00	Matrix:	Soil
Client Sample ID:	HA-5A	Date Received:	06/15/00		
<hr/>					
Parameters	Results	Units	PRL	App. DF	Analyzed Analyst CAS# Footnotes
Metals					
Metals, Trace ICP		Method: EPA 6010			Prep Method: EPA 3050
Lead	880	mg/kg	0.6	1.09	06/19/00 RWF 7439-92-1
Date Digested					06/19/00
<hr/>					
Chemistry					
Percent Moisture		Method: % Moisture			Prep Method:
Percent Moisture	9.0	%		0.91	06/21/00 YMH

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Pace Project Number: 9214808

Client Project ID: Clawson's/97-037-06

Sample No:	921046033	Date Collected:	06/15/00	Matrix:	Soil
Client Sample ID:	HA-5B	Date Received:	06/15/00		
<hr/>					
Parameters					
	Results	Units	PRL	App. DF	Analyzed Analyst CAS# Footnotes
<hr/>					
Metals					
Metals, Trace ICP		Method: EPA 6010			Prep Method: EPA 3050
Lead	10	mg/kg	0.5	0.86	06/19/00 RWF 7439-92-1
Date Digested					06/19/00
Chemistry					
Percent Moisture		Method: % Moisture			Prep Method:
Percent Moisture	14.6	%		0.85	06/21/00 YMH

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Pace Project Number: 9214808

Client Project ID: Clawson's/97-037-06

Sample No:	921046041	Date Collected:	06/15/00	Matrix:	Soil
Client Sample ID:	GP-1	Date Received:	06/15/00		
<hr/>					
Parameters	Results	Units	PRL	App. DF	Analyzed
					Analyst
					CAS#
					Footnotes
<hr/>					
Metals					
Metals, Trace ICP		Method: EPA 6010		Prep Method: EPA 3050	
Lead	40	mg/kg	0.58	06/19/00 RWF	7439-92-1
Date Digested				06/19/00	
<hr/>					
Elemental Chemistry					
Percent Moisture		Method: % Moisture		Prep Method:	
Percent Moisture	19.1	%	0.81	06/21/00 YMH	
<hr/>					
GC/MS Volatiles					
GC/MS VOCs by 8260, low level		Method: EPA 8260		Prep Method: EPA 8260	
Dichlorodifluoromethane	ND	ug/kg	12	06/17/00 CBD	75-71-8
Chloromethane	ND	ug/kg	12	06/17/00 CBD	74-87-3
Vinyl Chloride	ND	ug/kg	12	06/17/00 CBD	75-01-4
Bromomethane	ND	ug/kg	12	06/17/00 CBD	74-83-9
Chloroethane	ND	ug/kg	12	06/17/00 CBD	75-00-3
Trichlorofluoromethane	ND	ug/kg	6.2	06/17/00 CBD	75-69-4
1,1-Dichloroethene	ND	ug/kg	6.2	06/17/00 CBD	75-35-4
Methylene Chloride	ND	ug/kg	6.2	06/17/00 CBD	75-09-2
trans-1,2-Dichloroethene	ND	ug/kg	6.2	06/17/00 CBD	156-60-5
1,1-Dichloroethane	ND	ug/kg	6.2	06/17/00 CBD	75-34-3
cis-1,2-Dichloroethene	ND	ug/kg	6.2	06/17/00 CBD	156-59-2
2,2-Dichloropropane	ND	ug/kg	6.2	06/17/00 CBD	594-20-7
Chloroform	ND	ug/kg	6.2	06/17/00 CBD	67-66-3
Bromochloromethane	ND	ug/kg	6.2	06/17/00 CBD	74-97-5
1,1,1-Trichloroethane	ND	ug/kg	6.2	06/17/00 CBD	71-55-6
1,1-Dichloropropene	ND	ug/kg	6.2	06/17/00 CBD	563-58-6
1,2-Dichloroethane	ND	ug/kg	6.2	06/17/00 CBD	107-06-2
Carbon Tetrachloride	ND	ug/kg	6.2	06/17/00 CBD	56-23-5
Benzene	ND	ug/kg	6.2	06/17/00 CBD	71-43-2
Trichloroethene	ND	ug/kg	6.2	06/17/00 CBD	79-01-6
1,2-Dichloropropane	ND	ug/kg	6.2	06/17/00 CBD	78-87-5
Dibromomethane	ND	ug/kg	6.2	06/17/00 CBD	74-95-3
Bromodichloromethane	ND	ug/kg	6.2	06/17/00 CBD	75-27-4
Toluene	ND	ug/kg	6.2	06/17/00 CBD	108-88-3
1,1,2-Trichloroethane	ND	ug/kg	6.2	06/17/00 CBD	79-00-5

Laboratory Certification IDs  
 NC Wastewater 12  
 NC Drinking Water 37706  
 SC 99006

## REPORT OF LABORATORY ANALYSIS

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Laboratory Certification IDs  
 KY Drinking Water 90090  
 TN UST List  
 VA Drinking Water 213

DATE: 06/21/00  
 PAGE: 12

Pace Project Number: 9214808  
 Client Project ID: Clawson's/97-037-06

Sample No:	921046041	Date Collected:	06/15/00	Matrix:	Soil	
Client Sample ID:	GP-1	Date Received:	06/15/00			
Parameters	Results	Units	PRL	App. DF	Analyzed	
					Analyst	
					CAS#	
					Footnotes	
1,3-Dichloropropane	ND	ug/kg	6.2	1.00	06/17/00 CBD	142-28-9
Dibromochloromethane	ND	ug/kg	6.2	1.00	06/17/00 CBD	124-48-1
Tetrachloroethene	ND	ug/kg	6.2	1.00	06/17/00 CBD	127-18-4
1,2-Dibromoethane	ND	ug/kg	6.2	1.00	06/17/00 CBD	106-93-4
Chlorobenzene	ND	ug/kg	6.2	1.00	06/17/00 CBD	108-90-7
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.2	1.00	06/17/00 CBD	630-20-6
Ethylbenzene	ND	ug/kg	6.2	1.00	06/17/00 CBD	100-41-4
m&p-Xylene	ND	ug/kg	12	1.00	06/17/00 CBD	7816-60-0
Styrene	ND	ug/kg	6.2	1.00	06/17/00 CBD	100-42-5
o-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	6.2	1.00	06/17/00 CBD	95-47-6
Bromoform	ND	ug/kg	6.2	1.00	06/17/00 CBD	75-25-2
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.2	1.00	06/17/00 CBD	79-34-5
Isopropylbenzene (Cumene)	ND	ug/kg	6.2	1.00	06/17/00 CBD	98-82-8
1,2,3-Trichloropropane	ND	ug/kg	6.2	1.00	06/17/00 CBD	96-18-4
Bromobenzene	ND	ug/kg	6.2	1.00	06/17/00 CBD	108-86-1
n-Propylbenzene	ND	ug/kg	6.2	1.00	06/17/00 CBD	103-65-1
2-Chlorotoluene	ND	ug/kg	6.2	1.00	06/17/00 CBD	95-49-8
4-Chlorotoluene	ND	ug/kg	6.2	1.00	06/17/00 CBD	106-43-4
1,3,5-Trimethylbenzene	ND	ug/kg	6.2	1.00	06/17/00 CBD	108-67-8
tert-Butylbenzene	ND	ug/kg	6.2	1.00	06/17/00 CBD	98-06-6
1,2,4-Trimethylbenzene	ND	ug/kg	6.2	1.00	06/17/00 CBD	95-63-6
sec-Butylbenzene	ND	ug/kg	6.2	1.00	06/17/00 CBD	135-98-8
1,3-Dichlorobenzene	ND	ug/kg	6.2	1.00	06/17/00 CBD	541-73-1
p-Isopropyltoluene	ND	ug/kg	6.2	1.00	06/17/00 CBD	99-87-6
1,4-Dichlorobenzene	ND	ug/kg	6.2	1.00	06/17/00 CBD	106-46-7
1,2-Dichlorobenzene	ND	ug/kg	6.2	1.00	06/17/00 CBD	95-50-1
n-Butylbenzene	ND	ug/kg	6.2	1.00	06/17/00 CBD	104-51-8
1,2-Dibromo-3-Chloropropane	ND	ug/kg	6.2	1.00	06/17/00 CBD	96-12-8
1,2,4-Trichlorobenzene	ND	ug/kg	6.2	1.00	06/17/00 CBD	120-82-1
Naphthalene	ND	ug/kg	6.2	1.00	06/17/00 CBD	91-20-3
Hexachlorobutadiene	ND	ug/kg	6.2	1.00	06/17/00 CBD	87-68-3
1,2,3-Trichlorobenzene	ND	ug/kg	6.2	1.00	06/17/00 CBD	87-61-6
Dibromofluoromethane (S)	94	x		0.81	06/17/00 CBD	1868-53-7
1,2-Dichloroethane-d4 (S)	92	x		0.81	06/17/00 CBD	17060-07-0
Toluene-d8 (S)	100	x		0.81	06/17/00 CBD	2037-26-5
4-Bromofluorobenzene (S)	100	x		0.81	06/17/00 CBD	460-00-4

## REPORT OF LABORATORY ANALYSIS

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Laboratory Certification IDs  
 NC Wastewater 12  
 NC Drinking Water 37706  
 SC 99006

Laboratory Certification IDs  
 KY Drinking Water 90090  
 TN UST List  
 VA Drinking Water 213

DATE: 06/21/00  
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Pace Project Number: 9214808  
 Client Project ID: Clawson's/97-037-06

Sample No:	921046058	Date Collected:	06/15/00	Matrix:	Soil
Client Sample ID:	GP-2	Date Received:	06/15/00		
Parameters	Results	Units	PRL	App. DF	Analyzed Analyst CAS# Footnotes
Metals					
Metals, Trace ICP		Method: EPA 6010			Prep Method: EPA 3050
Lead	1.8	mg/kg	0.63	0.89	06/19/00 RWF 7439-92-1
Date Digested					06/19/00
Chemistry					
Percent Moisture		Method: % Moisture			Prep Method:
Percent Moisture	29.7	%	0.70		06/21/00 YMH
/MS Volatiles					
GC/MS VOCs by 8260, low level		Method: EPA 8260			Prep Method: EPA 8260
Dichlorodifluoromethane	ND	ug/kg	14	1.00	06/17/00 CBD 75-71-8
Chloromethane	ND	ug/kg	14	1.00	06/17/00 CBD 74-87-3
Vinyl Chloride	ND	ug/kg	14	1.00	06/17/00 CBD 75-01-4
Bromomethane	ND	ug/kg	14	1.00	06/17/00 CBD 74-83-9
Chloroethane	ND	ug/kg	14	1.00	06/17/00 CBD 75-00-3
Trichlorofluoromethane	ND	ug/kg	7.1	1.00	06/17/00 CBD 75-69-4
1,1-Dichloroethene	ND	ug/kg	7.1	1.00	06/17/00 CBD 75-35-4
Methylene Chloride	ND	ug/kg	7.1	1.00	06/17/00 CBD 75-09-2
trans-1,2-Dichloroethene	ND	ug/kg	7.1	1.00	06/17/00 CBD 156-60-5
1,1-Dichloroethane	ND	ug/kg	7.1	1.00	06/17/00 CBD 75-34-3
cis-1,2-Dichloroethene	ND	ug/kg	7.1	1.00	06/17/00 CBD 156-59-2
2,2-Dichloropropane	ND	ug/kg	7.1	1.00	06/17/00 CBD 594-20-7
Chloroform	ND	ug/kg	7.1	1.00	06/17/00 CBD 67-66-3
Bromochloromethane	ND	ug/kg	7.1	1.00	06/17/00 CBD 74-97-5
1,1,1-Trichloroethane	ND	ug/kg	7.1	1.00	06/17/00 CBD 71-55-6
1,1-Dichloropropene	ND	ug/kg	7.1	1.00	06/17/00 CBD 563-58-6
1,2-Dichloroethane	ND	ug/kg	7.1	1.00	06/17/00 CBD 107-06-2
Carbon Tetrachloride	ND	ug/kg	7.1	1.00	06/17/00 CBD 56-23-5
Benzene	ND	ug/kg	7.1	1.00	06/17/00 CBD 71-43-2
Trichloroethene	ND	ug/kg	7.1	1.00	06/17/00 CBD 79-01-6
1,2-Dichloropropane	ND	ug/kg	7.1	1.00	06/17/00 CBD 78-87-5
Dibromomethane	ND	ug/kg	7.1	1.00	06/17/00 CBD 74-95-3
Bromodichloromethane	ND	ug/kg	7.1	1.00	06/17/00 CBD 75-27-4
Toluene	ND	ug/kg	7.1	1.00	06/17/00 CBD 108-88-3
1,1,2-Trichloroethane	ND	ug/kg	7.1	1.00	06/17/00 CBD 79-00-5

## REPORT OF LABORATORY ANALYSIS

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 NC Drinking Water 37706  
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Laboratory Certification IDs  
 KY Drinking Water 90090  
 TN UST List  
 VA Drinking Water 213

DATE: 06/21/00

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Pace Project Number: 9214808

Client Project ID: Clawson's/97-037-06

Pace Sample No:	921046058	Date Collected:	06/15/00	Matrix:	Soil			
Client Sample ID:	GP-2	Date Received:	06/15/00					
Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
1,3-Dichloropropane	ND	ug/kg	7.1	1.00	06/17/00	CBD	142-28-9	
Dibromochloromethane	ND	ug/kg	7.1	1.00	06/17/00	CBD	124-48-1	
Tetrachloroethene	ND	ug/kg	7.1	1.00	06/17/00	CBD	127-18-4	
1,2-Dibromoethane	ND	ug/kg	7.1	1.00	06/17/00	CBD	106-93-4	
Chlorobenzene	ND	ug/kg	7.1	1.00	06/17/00	CBD	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	7.1	1.00	06/17/00	CBD	630-20-6	
Ethylbenzene	ND	ug/kg	7.1	1.00	06/17/00	CBD	100-41-4	
m,p-Xylene	ND	ug/kg	14	1.00	06/17/00	CBD	7816-60-0	
Styrene	ND	ug/kg	7.1	1.00	06/17/00	CBD	100-42-5	
o-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	7.1	1.00	06/17/00	CBD	95-47-6	
Bromoform	ND	ug/kg	7.1	1.00	06/17/00	CBD	75-25-2	
1,1,2,2-Tetrachloroethane	ND	ug/kg	7.1	1.00	06/17/00	CBD	79-34-5	
Isopropylbenzene (Cumene)	ND	ug/kg	7.1	1.00	06/17/00	CBD	98-82-8	
1,2,3-Trichloropropane	ND	ug/kg	7.1	1.00	06/17/00	CBD	96-18-4	
Bromobenzene	ND	ug/kg	7.1	1.00	06/17/00	CBD	108-86-1	
n-Propylbenzene	ND	ug/kg	7.1	1.00	06/17/00	CBD	103-65-1	
2-Chlorotoluene	ND	ug/kg	7.1	1.00	06/17/00	CBD	95-49-8	
4-Chlorotoluene	ND	ug/kg	7.1	1.00	06/17/00	CBD	106-43-4	
1,3,5-Trimethylbenzene	ND	ug/kg	7.1	1.00	06/17/00	CBD	108-67-8	
tert-Butylbenzene	ND	ug/kg	7.1	1.00	06/17/00	CBD	98-06-6	
1,2,4-Trimethylbenzene	ND	ug/kg	7.1	1.00	06/17/00	CBD	95-63-6	
sec-Butylbenzene	ND	ug/kg	7.1	1.00	06/17/00	CBD	135-98-8	
1,3-Dichlorobenzene	ND	ug/kg	7.1	1.00	06/17/00	CBD	541-73-1	
p-Isopropyltoluene	ND	ug/kg	7.1	1.00	06/17/00	CBD	99-87-6	
1,4-Dichlorobenzene	ND	ug/kg	7.1	1.00	06/17/00	CBD	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	7.1	1.00	06/17/00	CBD	95-50-1	
n-Butylbenzene	ND	ug/kg	7.1	1.00	06/17/00	CBD	104-51-8	
1,2-Dibromo-3-Chloropropane	ND	ug/kg	7.1	1.00	06/17/00	CBD	96-12-8	
1,2,4-Trichlorobenzene	ND	ug/kg	7.1	1.00	06/17/00	CBD	120-82-1	
Naphthalene	ND	ug/kg	7.1	1.00	06/17/00	CBD	91-20-3	
Hexachlorobutadiene	ND	ug/kg	7.1	1.00	06/17/00	CBD	87-68-3	
1,2,3-Trichlorobenzene	ND	ug/kg	7.1	1.00	06/17/00	CBD	87-61-6	
Dibromofluoromethane (S)	92	x		0.70	06/17/00	CBD	1868-53-7	
1,2-Dichloroethane-d4 (S)	92	x		0.70	06/17/00	CBD	17060-07-0	
Toluene-d8 (S)	98	x		0.70	06/17/00	CBD	2037-26-5	
4-Bromofluorobenzene (S)	101	x		0.70	06/17/00	CBD	460-00-4	

## REPORT OF LABORATORY ANALYSIS

DATE: 06/21/00

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Pace Project Number: 9214808

Client Project ID: Clawson's/97-037-06

Sample No:	921046066	Date Collected:	06/15/00	Matrix:	Soil
Client Sample ID:	GP-3	Date Received:	06/15/00		
Parameters	Results	Units	PRL	App. DF	Analyzed Analyst CAS# Footnotes
Metals					
Metals, Trace ICP		Method: EPA 6010			Prep Method: EPA 3050
Lead	1.6	mg/kg	0.47	0.81	06/19/00 RWF 7439-92-1
Date Digested					06/19/00
Chemistry					
Percent Moisture		Method: % Moisture			Prep Method:
Percent Moisture	13.4	%		0.87	06/21/00 YMH
/MS Volatiles					
GC/MS VOCs by 8260, low level		Method: EPA 8260			Prep Method: EPA 8260
Dichlorodifluoromethane	ND	ug/kg	12	1.00	06/17/00 CBD 75-71-8
Chloromethane	ND	ug/kg	12	1.00	06/17/00 CBD 74-87-3
Vinyl Chloride	ND	ug/kg	12	1.00	06/17/00 CBD 75-01-4
Bromomethane	ND	ug/kg	12	1.00	06/17/00 CBD 74-83-9
Chloroethane	ND	ug/kg	12	1.00	06/17/00 CBD 75-00-3
Trichlorofluoromethane	ND	ug/kg	5.8	1.00	06/17/00 CBD 75-69-4
1,1-Dichloroethene	ND	ug/kg	5.8	1.00	06/17/00 CBD 75-35-4
Methylene Chloride	ND	ug/kg	5.8	1.00	06/17/00 CBD 75-09-2
trans-1,2-Dichloroethene	ND	ug/kg	5.8	1.00	06/17/00 CBD 156-60-5
1,1-Dichloroethane	ND	ug/kg	5.8	1.00	06/17/00 CBD 75-34-3
cis-1,2-Dichloroethene	ND	ug/kg	5.8	1.00	06/17/00 CBD 156-59-2
2,2-Dichloropropane	ND	ug/kg	5.8	1.00	06/17/00 CBD 594-20-7
Chloroform	ND	ug/kg	5.8	1.00	06/17/00 CBD 67-66-3
Bromochloromethane	ND	ug/kg	5.8	1.00	06/17/00 CBD 74-97-5
1,1,1-Trichloroethane	ND	ug/kg	5.8	1.00	06/17/00 CBD 71-55-6
1,1-Dichloropropene	ND	ug/kg	5.8	1.00	06/17/00 CBD 563-58-6
1,2-Dichloroethane	ND	ug/kg	5.8	1.00	06/17/00 CBD 107-06-2
Carbon Tetrachloride	ND	ug/kg	5.8	1.00	06/17/00 CBD 56-23-5
Benzene	ND	ug/kg	5.8	1.00	06/17/00 CBD 71-43-2
Trichloroethene	ND	ug/kg	5.8	1.00	06/17/00 CBD 79-01-6
1,2-Dichloropropane	ND	ug/kg	5.8	1.00	06/17/00 CBD 78-87-5
Dibromomethane	ND	ug/kg	5.8	1.00	06/17/00 CBD 74-95-3
Bromodichloromethane	ND	ug/kg	5.8	1.00	06/17/00 CBD 75-27-4
Toluene	ND	ug/kg	5.8	1.00	06/17/00 CBD 108-88-3
1,1,2-Trichloroethane	ND	ug/kg	5.8	1.00	06/17/00 CBD 79-00-5

Laboratory Certification IDs  
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## REPORT OF LABORATORY ANALYSIS

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Laboratory Certification IDs  
 KY Drinking Water 90090  
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 VA Drinking Water 213

DATE: 06/21/00

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Pace Project Number: 9214808

Client Project ID: Clawson's/97-037-06

Sample No:	921046066		Date Collected:	06/15/00	Matrix:	Soil		
Client Sample ID:	GP-3		Date Received:	06/15/00				
Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
1,3-Dichloropropane	ND	ug/kg	5.8	1.00	06/17/00	CBD	142-28-9	
Dibromochloromethane	ND	ug/kg	5.8	1.00	06/17/00	CBD	124-48-1	
Tetrachloroethene	ND	ug/kg	5.8	1.00	06/17/00	CBD	127-18-4	
1,2-Dibromoethane	ND	ug/kg	5.8	1.00	06/17/00	CBD	106-93-4	
Chlorobenzene	ND	ug/kg	5.8	1.00	06/17/00	CBD	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.8	1.00	06/17/00	CBD	630-20-6	
Ethylbenzene	ND	ug/kg	5.8	1.00	06/17/00	CBD	100-41-4	
m&p-Xylene	ND	ug/kg	12	1.00	06/17/00	CBD	7816-60-0	
Styrene	ND	ug/kg	5.8	1.00	06/17/00	CBD	100-42-5	
o-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	5.8	1.00	06/17/00	CBD	95-47-6	
Bromoform	ND	ug/kg	5.8	1.00	06/17/00	CBD	75-25-2	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.8	1.00	06/17/00	CBD	79-34-5	
Isopropylbenzene (Cumene)	ND	ug/kg	5.8	1.00	06/17/00	CBD	98-82-8	
1,2,3-Trichloropropane	ND	ug/kg	5.8	1.00	06/17/00	CBD	96-18-4	
Bromobenzene	ND	ug/kg	5.8	1.00	06/17/00	CBD	108-86-1	
n-Propylbenzene	ND	ug/kg	5.8	1.00	06/17/00	CBD	103-65-1	
2-Chlorotoluene	ND	ug/kg	5.8	1.00	06/17/00	CBD	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.8	1.00	06/17/00	CBD	106-43-4	
1,3,5-Trimethylbenzene	ND	ug/kg	5.8	1.00	06/17/00	CBD	108-67-8	
tert-Butylbenzene	ND	ug/kg	5.8	1.00	06/17/00	CBD	98-06-6	
1,2,4-Trimethylbenzene	ND	ug/kg	5.8	1.00	06/17/00	CBD	95-63-6	
sec-Butylbenzene	ND	ug/kg	5.8	1.00	06/17/00	CBD	135-98-8	
1,3-Dichlorobenzene	ND	ug/kg	5.8	1.00	06/17/00	CBD	541-73-1	
p-Isopropyltoluene	ND	ug/kg	5.8	1.00	06/17/00	CBD	99-87-6	
1,4-Dichlorobenzene	ND	ug/kg	5.8	1.00	06/17/00	CBD	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	5.8	1.00	06/17/00	CBD	95-50-1	
n-Butylbenzene	ND	ug/kg	5.8	1.00	06/17/00	CBD	104-51-8	
1,2-Dibromo-3-Chloropropane	ND	ug/kg	5.8	1.00	06/17/00	CBD	96-12-8	
1,2,4-Trichlorobenzene	ND	ug/kg	5.8	1.00	06/17/00	CBD	120-82-1	
Naphthalene	ND	ug/kg	5.8	1.00	06/17/00	CBD	91-20-3	
Hexachlorobutadiene	ND	ug/kg	5.8	1.00	06/17/00	CBD	87-68-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.8	1.00	06/17/00	CBD	87-61-6	
Dibromofluoromethane (S)	97	x		0.87	06/17/00	CBD	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	x		0.87	06/17/00	CBD	17060-07-0	
Toluene-d8 (S)	99	x		0.87	06/17/00	CBD	2037-26-5	
4-Bromofluorobenzene (S)	101	x		0.87	06/17/00	CBD	460-00-4	

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DATE: 06/21/00

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Pace Project Number: 9214808  
 Client Project ID: Clawson's/97-037-06

Sample No:	921046074	Date Collected:	06/15/00	Matrix:	Soil
Client Sample ID:	GP-4	Date Received:	06/15/00		
<hr/>					
Parameters	Results	Units	PRL	App. DF	Analyzed
					Analyst
					CAS#
					Footnotes
<hr/>					
Metals					
Metals, Trace ICP		Method: EPA 6010			Prep Method: EPA 3050
Lead	100	mg/kg	0.55	0.91	06/19/00 RWF 7439-92-1
Date Digested					06/19/00
<hr/>					
Chemistry					
Percent Moisture		Method: % Moisture			Prep Method:
Percent Moisture	17.3	%		0.83	06/21/00 YMH
<hr/>					
GC/MS Volatiles					
GC/MS VOCs by 8260, low level		Method: EPA 8260			Prep Method: EPA 8260
Dichlorodifluoromethane	ND	ug/kg	12	1.00	06/17/00 CBD 75-71-8
Chloromethane	ND	ug/kg	12	1.00	06/17/00 CBD 74-87-3
Vinyl Chloride	ND	ug/kg	12	1.00	06/17/00 CBD 75-01-4
Bromomethane	ND	ug/kg	12	1.00	06/17/00 CBD 74-83-9
Chloroethane	ND	ug/kg	12	1.00	06/17/00 CBD 75-00-3
Trichlorofluoromethane	ND	ug/kg	6	1.00	06/17/00 CBD 75-69-4
1,1-Dichloroethene	ND	ug/kg	6	1.00	06/17/00 CBD 75-35-4
Methylene Chloride	ND	ug/kg	6	1.00	06/17/00 CBD 75-09-2
trans-1,2-Dichloroethene	ND	ug/kg	6	1.00	06/17/00 CBD 156-60-5
1,1-Dichloroethane	ND	ug/kg	6	1.00	06/17/00 CBD 75-34-3
cis-1,2-Dichloroethene	ND	ug/kg	6	1.00	06/17/00 CBD 156-59-2
2,2-Dichloropropane	ND	ug/kg	6	1.00	06/17/00 CBD 594-20-7
Chloroform	ND	ug/kg	6	1.00	06/17/00 CBD 67-66-3
Bromochloromethane	ND	ug/kg	6	1.00	06/17/00 CBD 74-97-5
1,1,1-Trichloroethane	ND	ug/kg	6	1.00	06/17/00 CBD 71-55-6
1,1-Dichloropropene	ND	ug/kg	6	1.00	06/17/00 CBD 563-58-6
1,2-Dichloroethane	ND	ug/kg	6	1.00	06/17/00 CBD 107-06-2
Carbon Tetrachloride	ND	ug/kg	6	1.00	06/17/00 CBD 56-23-5
Benzene	ND	ug/kg	6	1.00	06/17/00 CBD 71-43-2
Trichloroethene	ND	ug/kg	6	1.00	06/17/00 CBD 79-01-6
1,2-Dichloropropane	ND	ug/kg	6	1.00	06/17/00 CBD 78-87-5
Dibromomethane	ND	ug/kg	6	1.00	06/17/00 CBD 74-95-3
Bromodichloromethane	ND	ug/kg	6	1.00	06/17/00 CBD 75-27-4
Toluene	ND	ug/kg	6	1.00	06/17/00 CBD 108-88-3
1,1,2-Trichloroethane	ND	ug/kg	6	1.00	06/17/00 CBD 79-00-5
<hr/>					
Laboratory Certification IDs					Laboratory Certification IDs
KC Wastewater	12				KY Drinking Water 90090
KC Drinking Water	37706				TN UST List
KC	99006				VA Drinking Water 213

## REPORT OF LABORATORY ANALYSIS

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Pace Project Number: 9214808

Client Project ID: Clawson's/97-037-06

Pace Sample No:	921046074	Date Collected:	06/15/00	Matrix:	Soil				
Client Sample ID:	GP-4	Date Received:	06/15/00						
Parameters	Results	Units	PRL	App.	DF	Analyzed	Analyst	CAS#	Footnotes
1,3-Dichloropropane	ND	ug/kg	6	1.00		06/17/00	CBD	142-28-9	
Dibromochloromethane	ND	ug/kg	6	1.00		06/17/00	CBD	124-48-1	
Tetrachloroethene	ND	ug/kg	6	1.00		06/17/00	CBD	127-18-4	
1,2-Dibromoethane	ND	ug/kg	6	1.00		06/17/00	CBD	106-93-4	
Chlorobenzene	ND	ug/kg	6	1.00		06/17/00	CBD	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6	1.00		06/17/00	CBD	630-20-6	
Ethylbenzene	ND	ug/kg	6	1.00		06/17/00	CBD	100-41-4	
m,p-Xylene	ND	ug/kg	12	1.00		06/17/00	CBD	7816-60-0	
Styrene	ND	ug/kg	6	1.00		06/17/00	CBD	100-42-5	
o-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	6	1.00		06/17/00	CBD	95-47-6	
Bromoform	ND	ug/kg	6	1.00		06/17/00	CBD	75-25-2	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6	1.00		06/17/00	CBD	79-34-5	
Isopropylbenzene (Cumene)	ND	ug/kg	6	1.00		06/17/00	CBD	98-82-8	
1,2,3-Trichloropropane	ND	ug/kg	6	1.00		06/17/00	CBD	96-18-4	
Bromobenzene	ND	ug/kg	6	1.00		06/17/00	CBD	108-86-1	
n-Propylbenzene	ND	ug/kg	6	1.00		06/17/00	CBD	103-65-1	
2-Chlorotoluene	ND	ug/kg	6	1.00		06/17/00	CBD	95-49-8	
4-Chlorotoluene	ND	ug/kg	6	1.00		06/17/00	CBD	106-43-4	
1,3,5-Trimethylbenzene	ND	ug/kg	6	1.00		06/17/00	CBD	108-67-8	
tert-Butylbenzene	ND	ug/kg	6	1.00		06/17/00	CBD	98-06-6	
1,2,4-Trimethylbenzene	8.9	ug/kg	6	1.00		06/17/00	CBD	95-63-6	
sec-Butylbenzene	ND	ug/kg	6	1.00		06/17/00	CBD	135-98-8	
1,3-Dichlorobenzene	ND	ug/kg	6	1.00		06/17/00	CBD	541-73-1	
p-Isopropyltoluene	ND	ug/kg	6	1.00		06/17/00	CBD	99-87-6	
1,4-Dichlorobenzene	ND	ug/kg	6	1.00		06/17/00	CBD	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	6	1.00		06/17/00	CBD	95-50-1	
n-Butylbenzene	ND	ug/kg	6	1.00		06/17/00	CBD	104-51-8	
1,2-Dibromo-3-Chloropropane	ND	ug/kg	6	1.00		06/17/00	CBD	96-12-8	
1,2,4-Trichlorobenzene	ND	ug/kg	6	1.00		06/17/00	CBD	120-82-1	
Naphthalene	7.0	ug/kg	6	1.00		06/17/00	CBD	91-20-3	
Hexachlorobutadiene	ND	ug/kg	6	1.00		06/17/00	CBD	87-68-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6	1.00		06/17/00	CBD	87-61-6	
Dibromofluoromethane (S)	96	%		0.83		06/17/00	CBD	1868-53-7	
1,2-Dichloroethane-d4 (S)	94	%		0.83		06/17/00	CBD	17060-07-0	
Toluene-d8 (S)	95	%		0.83		06/17/00	CBD	2037-26-5	
4-Bromofluorobenzene (S)	96	%		0.83		06/17/00	CBD	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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Laboratory Certification IDs  
 NC Wastewater 12  
 NC Drinking Water 37706  
 SC 99006

Laboratory Certification IDs  
 KY Drinking Water 90090  
 TN UST List  
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Pace Project Number: 9214808

Client Project ID: Clawson's/97-037-06

Sample No:	921046082	Date Collected:	06/15/00	Matrix:	Soil
Client Sample ID:	GP-5	Date Received:	06/15/00		
Parameters	Results	Units	PRL	App. DF	Analyzed Analyst CAS# Footnotes
Metals					
Metals, Trace ICP		Method: EPA 6010			Prep Method: EPA 3050
Lead	5.1	mg/kg	0.66	1.06	06/19/00 RWF 7439-92-1
Date Digested					06/19/00
Chemistry					
Percent Moisture		Method: % Moisture			Prep Method:
Percent Moisture	19.1	%	0.81		06/21/00 YMH
/MS Volatiles					
GC/MS VOCs by 8260, low level		Method: EPA 8260			Prep Method: EPA 8260
Dichlorodifluoromethane	ND	ug/kg	12	1.00	06/17/00 CBD 75-71-8
Chloromethane	ND	ug/kg	12	1.00	06/17/00 CBD 74-87-3
Vinyl Chloride	ND	ug/kg	12	1.00	06/17/00 CBD 75-01-4
Bromomethane	ND	ug/kg	12	1.00	06/17/00 CBD 74-83-9
Chloroethane	ND	ug/kg	12	1.00	06/17/00 CBD 75-00-3
Trichlorofluoromethane	ND	ug/kg	6.2	1.00	06/17/00 CBD 75-69-4
1,1-Dichloroethene	ND	ug/kg	6.2	1.00	06/17/00 CBD 75-35-4
Methylene Chloride	ND	ug/kg	6.2	1.00	06/17/00 CBD 75-09-2
trans-1,2-Dichloroethene	ND	ug/kg	6.2	1.00	06/17/00 CBD 156-60-5
1,1-Dichloroethane	ND	ug/kg	6.2	1.00	06/17/00 CBD 75-34-3
cis-1,2-Dichloroethene	ND	ug/kg	6.2	1.00	06/17/00 CBD 156-59-2
2,2-Dichloropropane	ND	ug/kg	6.2	1.00	06/17/00 CBD 594-20-7
Chloroform	ND	ug/kg	6.2	1.00	06/17/00 CBD 67-66-3
Bromochloromethane	ND	ug/kg	6.2	1.00	06/17/00 CBD 74-97-5
1,1,1-Trichloroethane	ND	ug/kg	6.2	1.00	06/17/00 CBD 71-55-6
1,1-Dichloropropene	ND	ug/kg	6.2	1.00	06/17/00 CBD 563-58-6
1,2-Dichloroethane	ND	ug/kg	6.2	1.00	06/17/00 CBD 107-06-2
Carbon Tetrachloride	ND	ug/kg	6.2	1.00	06/17/00 CBD 56-23-5
Benzene	ND	ug/kg	6.2	1.00	06/17/00 CBD 71-43-2
Trichloroethene	ND	ug/kg	6.2	1.00	06/17/00 CBD 79-01-6
1,2-Dichloropropane	ND	ug/kg	6.2	1.00	06/17/00 CBD 78-87-5
Dibromomethane	ND	ug/kg	6.2	1.00	06/17/00 CBD 74-95-3
Bromodichloromethane	ND	ug/kg	6.2	1.00	06/17/00 CBD 75-27-4
Toluene	ND	ug/kg	6.2	1.00	06/17/00 CBD 108-88-3
1,1,2-Trichloroethane	ND	ug/kg	6.2	1.00	06/17/00 CBD 79-00-5

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VA Drinking Water 213

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 JC Drinking Water 37706  
 JC 99006

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Pace Project Number: 9214808

Client Project ID: Clawson's/97-037-06

Site Sample No:	921046082	Date Collected:	06/15/00		Matrix:	Soil		
Client Sample ID:	GP-5	Date Received:	06/15/00					
Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
1,3-Dichloropropane	ND	ug/kg	6.2	1.00	06/17/00	CBD	142-28-9	
Dibromochloromethane	ND	ug/kg	6.2	1.00	06/17/00	CBD	124-48-1	
Tetrachloroethene	ND	ug/kg	6.2	1.00	06/17/00	CBD	127-18-4	
1,2-Dibromoethane	ND	ug/kg	6.2	1.00	06/17/00	CBD	106-93-4	
Chlorobenzene	ND	ug/kg	6.2	1.00	06/17/00	CBD	108-90-7	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.2	1.00	06/17/00	CBD	630-20-6	
Ethylbenzene	ND	ug/kg	6.2	1.00	06/17/00	CBD	100-41-4	
m,p-Xylene	ND	ug/kg	12	1.00	06/17/00	CBD	7816-60-0	
Styrene	ND	ug/kg	6.2	1.00	06/17/00	CBD	100-42-5	
o-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	6.2	1.00	06/17/00	CBD	95-47-6	
Bromoform	ND	ug/kg	6.2	1.00	06/17/00	CBD	75-25-2	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.2	1.00	06/17/00	CBD	79-34-5	
Isopropylbenzene (Cumene)	ND	ug/kg	6.2	1.00	06/17/00	CBD	98-82-8	
1,2,3-Trichloropropane	ND	ug/kg	6.2	1.00	06/17/00	CBD	96-18-4	
Bromobenzene	ND	ug/kg	6.2	1.00	06/17/00	CBD	108-86-1	
n-Propylbenzene	ND	ug/kg	6.2	1.00	06/17/00	CBD	103-65-1	
2-Chlorotoluene	ND	ug/kg	6.2	1.00	06/17/00	CBD	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.2	1.00	06/17/00	CBD	106-43-4	
1,3,5-Trimethylbenzene	ND	ug/kg	6.2	1.00	06/17/00	CBD	108-67-8	
tert-Butylbenzene	ND	ug/kg	6.2	1.00	06/17/00	CBD	98-06-6	
1,2,4-Trimethylbenzene	ND	ug/kg	6.2	1.00	06/17/00	CBD	95-63-6	
sec-Butylbenzene	ND	ug/kg	6.2	1.00	06/17/00	CBD	135-98-8	
1,3-Dichlorobenzene	ND	ug/kg	6.2	1.00	06/17/00	CBD	541-73-1	
p-Isopropyltoluene	ND	ug/kg	6.2	1.00	06/17/00	CBD	99-87-6	
1,4-Dichlorobenzene	ND	ug/kg	6.2	1.00	06/17/00	CBD	106-46-7	
1,2-Dichlorobenzene	ND	ug/kg	6.2	1.00	06/17/00	CBD	95-50-1	
n-Butylbenzene	ND	ug/kg	6.2	1.00	06/17/00	CBD	104-51-8	
1,2-Dibromo-3-Chloropropane	ND	ug/kg	6.2	1.00	06/17/00	CBD	96-12-8	
1,2,4-Trichlorobenzene	ND	ug/kg	6.2	1.00	06/17/00	CBD	120-82-1	
Naphthalene	ND	ug/kg	6.2	1.00	06/17/00	CBD	91-20-3	
Hexachlorobutadiene	ND	ug/kg	6.2	1.00	06/17/00	CBD	87-68-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.2	1.00	06/17/00	CBD	87-61-6	
Dibromofluoromethane (S)	96	%		0.81	06/17/00	CBD	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%		0.81	06/17/00	CBD	17060-07-0	
Toluene-d8 (S)	98	%		0.81	06/17/00	CBD	2037-26-5	
4-Bromofluorobenzene (S)	96	%		0.81	06/17/00	CBD	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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Pace Project Number: 9214808

Client Project ID: Clawson's/97-037-06

Site Sample No:	921046090	Date Collected:	06/15/00	Matrix:	Soil
Client Sample ID:	GP-6	Date Received:	06/15/00		
Parameters	Results	Units	PRL	App. DF	Analyzed Analyst CAS# Footnotes
Metals					
Metals, Trace ICP		Method: EPA 6010			Prep Method: EPA 3050
Lead	ND	mg/kg	0.56	0.86	06/19/00 RWF 7439-92-1
Date Digested					06/19/00
Inorganic Chemistry					
Percent Moisture		Method: % Moisture			Prep Method:
Percent Moisture	23.4	%	0.77		06/21/00 YMH
GC/MS Volatiles					
GC/MS VOCs by 8260, low level		Method: EPA 8260			Prep Method: EPA 8260
Dichlorodifluoromethane	ND	ug/kg	13	1.00	06/17/00 CBD 75-71-8
Chloromethane	ND	ug/kg	13	1.00	06/17/00 CBD 74-87-3
Vinyl Chloride	ND	ug/kg	13	1.00	06/17/00 CBD 75-01-4
Bromomethane	ND	ug/kg	13	1.00	06/17/00 CBD 74-83-9
Chloroethane	ND	ug/kg	13	1.00	06/17/00 CBD 75-00-3
Trichlorofluoromethane	ND	ug/kg	6.5	1.00	06/17/00 CBD 75-69-4
1,1-Dichloroethene	ND	ug/kg	6.5	1.00	06/17/00 CBD 75-35-4
Methylene Chloride	ND	ug/kg	6.5	1.00	06/17/00 CBD 75-09-2
trans-1,2-Dichloroethene	ND	ug/kg	6.5	1.00	06/17/00 CBD 156-60-5
1,1-Dichloroethane	ND	ug/kg	6.5	1.00	06/17/00 CBD 75-34-3
cis-1,2-Dichloroethene	ND	ug/kg	6.5	1.00	06/17/00 CBD 156-59-2
2,2-Dichloropropane	ND	ug/kg	6.5	1.00	06/17/00 CBD 594-20-7
Chloroform	ND	ug/kg	6.5	1.00	06/17/00 CBD 67-66-3
Bromochloromethane	ND	ug/kg	6.5	1.00	06/17/00 CBD 74-97-5
1,1,1-Trichloroethane	ND	ug/kg	6.5	1.00	06/17/00 CBD 71-55-6
1,1-Dichloropropene	ND	ug/kg	6.5	1.00	06/17/00 CBD 563-58-6
1,2-Dichloroethane	ND	ug/kg	6.5	1.00	06/17/00 CBD 107-06-2
Carbon Tetrachloride	ND	ug/kg	6.5	1.00	06/17/00 CBD 56-23-5
Benzene	ND	ug/kg	6.5	1.00	06/17/00 CBD 71-43-2
Trichloroethene	ND	ug/kg	6.5	1.00	06/17/00 CBD 79-01-6
1,2-Dichloropropane	ND	ug/kg	6.5	1.00	06/17/00 CBD 78-87-5
Dibromomethane	ND	ug/kg	6.5	1.00	06/17/00 CBD 74-95-3
Bromodichloromethane	ND	ug/kg	6.5	1.00	06/17/00 CBD 75-27-4
Toluene	ND	ug/kg	6.5	1.00	06/17/00 CBD 108-88-3
1,1,2-Trichloroethane	ND	ug/kg	6.5	1.00	06/17/00 CBD 79-00-5

Laboratory Certification IDs  
 NC Wastewater 12  
 NC Drinking Water 37706  
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Laboratory Certification IDs  
 KY Drinking Water 90090  
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Pace Project Number: 9214808

Client Project ID: Clawson's/97-037-06

Sample No:	921046090		Date Collected:	06/15/00	Matrix:	Soil
Client Sample ID:	GP-6		Date Received:	06/15/00		
Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst
1,3-Dichloropropane	ND	ug/kg	6.5	1.00	06/17/00	CBD
Dibromochloromethane	ND	ug/kg	6.5	1.00	06/17/00	CBD
Tetrachloroethene	ND	ug/kg	6.5	1.00	06/17/00	CBD
1,2-Dibromoethane	ND	ug/kg	6.5	1.00	06/17/00	CBD
Chlorobenzene	ND	ug/kg	6.5	1.00	06/17/00	CBD
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.5	1.00	06/17/00	CBD
Ethylbenzene	ND	ug/kg	6.5	1.00	06/17/00	CBD
m&p-Xylene	ND	ug/kg	13	1.00	06/17/00	CBD
Styrene	ND	ug/kg	6.5	1.00	06/17/00	CBD
o-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	6.5	1.00	06/17/00	CBD
Bromoform	ND	ug/kg	6.5	1.00	06/17/00	CBD
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.5	1.00	06/17/00	CBD
Isopropylbenzene (Cumene)	ND	ug/kg	6.5	1.00	06/17/00	CBD
1,2,3-Trichloropropane	ND	ug/kg	6.5	1.00	06/17/00	CBD
Bromobenzene	ND	ug/kg	6.5	1.00	06/17/00	CBD
n-Propylbenzene	ND	ug/kg	6.5	1.00	06/17/00	CBD
2-Chlorotoluene	ND	ug/kg	6.5	1.00	06/17/00	CBD
4-Chlorotoluene	ND	ug/kg	6.5	1.00	06/17/00	CBD
1,3,5-Trimethylbenzene	ND	ug/kg	6.5	1.00	06/17/00	CBD
tert-Butylbenzene	ND	ug/kg	6.5	1.00	06/17/00	CBD
1,2,4-Trimethylbenzene	ND	ug/kg	6.5	1.00	06/17/00	CBD
sec-Butylbenzene	ND	ug/kg	6.5	1.00	06/17/00	CBD
1,3-Dichlorobenzene	ND	ug/kg	6.5	1.00	06/17/00	CBD
p-Isopropyltoluene	ND	ug/kg	6.5	1.00	06/17/00	CBD
1,4-Dichlorobenzene	ND	ug/kg	6.5	1.00	06/17/00	CBD
1,2-Dichlorobenzene	ND	ug/kg	6.5	1.00	06/17/00	CBD
n-Butylbenzene	ND	ug/kg	6.5	1.00	06/17/00	CBD
1,2-Dibromo-3-Chloropropane	ND	ug/kg	6.5	1.00	06/17/00	CBD
1,2,4-Trichlorobenzene	ND	ug/kg	6.5	1.00	06/17/00	CBD
Naphthalene	ND	ug/kg	6.5	1.00	06/17/00	CBD
Hexachlorobutadiene	ND	ug/kg	6.5	1.00	06/17/00	CBD
1,2,3-Trichlorobenzene	ND	ug/kg	6.5	1.00	06/17/00	CBD
Dibromofluoromethane (S)	99	%		0.77	06/17/00	CBD
1,2-Dichloroethane-d4 (S)	97	%		0.77	06/17/00	CBD
Toluene-d8 (S)	98	%		0.77	06/17/00	CBD
4-Bromofluorobenzene (S)	100	%		0.77	06/17/00	CBD

Laboratory Certification IDs  
 NC Wastewater 12  
 NC Drinking Water 37706  
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Pace Project Number: 9214808  
Client Project ID: Clawson's/97-037-06

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PARAMETER FOOTNOTES

- ND Not Detected
- NCL Not Calculable
- PL Pace Reporting Limit
- S Surrogate
- DF Applied Dilution Factor

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

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QUALITY CONTROL DATA

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Boyle Consulting Engineers  
 10 Tyvola Rd.  
 Suite 126  
 Charlotte, NC 28217

Pace Project Number: 9214808  
 Client Project ID: Clawson's/97-037-06

Attn: Mr. Chuck Boyle  
 Phone: (704)676-0778

Batch ID: 27644                            QC Batch Method: EPA 8260  
 Analysis Method: EPA 8260                Analysis Description: GC/MS VOCs by 8260, low level  
 Associated Pace Samples: 921046041    921046058    921046066    921046074    921046082  
    921046090

Method Blank: 921050381  
 Associated Pace Samples:

Parameter	Units	Method Blank Result				
		PRL	Footnotes			
Chlorodifluoromethane	ug/kg	ND	10			
Chloromethane	ug/kg	ND	10			
Methyl Chloride	ug/kg	ND	10			
Bromomethane	ug/kg	ND	10			
Dichloroethane	ug/kg	ND	10			
Trichlorofluoromethane	ug/kg	ND	5			
1-Dichloroethene	ug/kg	ND	5			
Ethylene Chloride	ug/kg	ND	5			
trans-1,2-Dichloroethene	ug/kg	ND	5			
1,1-Dichloroethane	ug/kg	ND	5			
trans-1,2-Dichloroethene	ug/kg	ND	5			
2-Dichloropropane	ug/kg	ND	5			
Chloroform	ug/kg	ND	5			
Bromoform	ug/kg	ND	5			
Chloromethylmethane	ug/kg	ND	5			
1,1-Trichloroethane	ug/kg	ND	5			
1,1-Dichloropropene	ug/kg	ND	5			
2-Dichloroethane	ug/kg	ND	5			
Carbon Tetrachloride	ug/kg	ND	5			
Benzene	ug/kg	ND	5			
1,1-Chloroethene	ug/kg	ND	5			
2-Dichloropropane	ug/kg	ND	5			
Bromomethane	ug/kg	ND	5			
Chlorodichloromethane	ug/kg	ND	5			
Styrene	ug/kg	ND	5			

Laboratory Certification IDs  
 NC Wastewater 12  
 NC Drinking Water 37706  
 SC 99006

Laboratory Certification IDs  
 KY Drinking Water 90090  
 TN UST List  
 VA Drinking Water 213

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

DATE: 06/21/00  
PAGE: 25

Pace Project Number: 9214808  
Client Project ID: Clawson's/97-037-06

THOD BLANK: 921050381

#### Associated Pace Samples:

Laboratory Certification IDs

NC Wastewater	12
NC Drinking Water	37706
NC	99006

## **REPORT OF LABORATORY ANALYSIS**

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Laboratory Certification IDs  
KY Drinking Water 90090  
TN UST List  
VA Drinking Water 213

## QUALITY CONTROL DATA

DATE: 06/21/00

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Pace Project Number: 9214808

Client Project ID: Clawson's/97-037-06

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		921047486	921047494	Matrix	Matrix	Spike				
Parameter	Units	921045118	Conc.	Spike	Spike	Spike	Sp. Dup.	Dup	RPD	Footnotes
1-Dichloroethene	ug/kg	0	54.84	39.40	71.8	42.61	77.7	8		
Toluene	ug/kg	9.651	54.84	51.67	76.6	50.95	75.3	2		
Dichloroethene	ug/kg	0	54.84	41.56	75.8	38.98	71.1	6		
Styrene	ug/kg	23.47	54.84	61.64	69.6	58.84	64.5	8		
Bromobenzene	ug/kg	0	54.84	34.20	62.4	15.52	28.3	75	1.1	
Bromofluoromethane (S)					99		99			
1,2-Dichloroethane-d4 (S)					98		99			
Styrene-d8 (S)					99		99			
Bromofluorobenzene (S)					92		92			

## LABORATORY CONTROL SAMPLE: 921045142

Parameter	Units	Spike	LCS	Spike		
		Conc.	Result	% Rec	Footnotes	
1-Chlorodifluoromethane	ug/kg	50	37.92	75.8		
Chloromethane	ug/kg	50	33.15	66.3		
Methyl Chloride	ug/kg	50	47.64	95.3		
Dimethylmethane	ug/kg	50	56.60	113		
Chloroethane	ug/kg	50	45.37	90.7		
1,1-Dichlorofluoromethane	ug/kg	50	48.52	97.0		
1-Dichloroethene	ug/kg	50	41.24	82.5		
Ethylene Chloride	ug/kg	50	48.08	96.2		
trans-1,2-Dichloroethene	ug/kg	50	43.51	87.0		
1,1-Dichloroethane	ug/kg	50	46.23	92.5		
trans-1,2-Dichloroethene	ug/kg	50	44.62	89.2		
2-Dichloropropane	ug/kg	50	40.81	81.6		
Chloroform	ug/kg	50	46.22	92.4		
1,1-Dimochloromethane	ug/kg	50	49.45	98.9		
1,1,1-Trichloroethane	ug/kg	50	44.43	88.9		
1,1-Dichloropropene	ug/kg	50	45.20	90.4		
1,2-Dichloroethane	ug/kg	50	45.02	90.0		
Carbon Tetrachloride	ug/kg	50	45.23	90.5		
Toluene	ug/kg	50	45.77	91.5		
1,1-Dichloroethene	ug/kg	50	46.50	93.0		
1,2-Dichloropropane	ug/kg	50	48.14	96.3		
Bromomethane	ug/kg	50	49.03	98.1		
1,1-Dimochloromethane	ug/kg	50	47.89	95.8		
Styrene	ug/kg	50	44.61	89.2		
1,1,2-Trichloroethane	ug/kg	50	48.87	97.7		
1,3-Dichloropropane	ug/kg	50	49.40	98.8		

 Laboratory Certification IDs  
 NC Wastewater 12  
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 SC 99006

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**QUALITY CONTROL DATA**

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 Pace Project Number: 9214808  
 Client Project ID: Clawson's/97-037-06

**L**ABORATORY CONTROL SAMPLE: 921045142

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Bromochloromethane	ug/kg	50	53.36	107	
Tetrachloroethene	ug/kg	50	47.80	95.6	
1,2-Dibromoethane	ug/kg	50	49.83	99.7	
Chlorobenzene	ug/kg	50	46.79	93.6	
1,1,2-Tetrachloroethane	ug/kg	50	50.34	101	
Methylbenzene	ug/kg	50	45.79	91.6	
p-Xylene	ug/kg	100	89.92	89.9	
Tyrene	ug/kg	50	43.99	88.0	
Xylene (1,2-Dimethylbenzene)	ug/kg	50	46.12	92.2	
Isomonoform	ug/kg	50	53.80	108	
1,2,2-Tetrachloroethane	ug/kg	50	48.84	97.7	
Isopropylbenzene (Cumene)	ug/kg	50	46.36	92.7	
2,3-Trichloropropane	ug/kg	50	48.72	97.4	
Bromobenzene	ug/kg	50	44.08	88.2	
Propylbenzene	ug/kg	50	43.34	86.7	
Chlorotoluene	ug/kg	50	42.92	85.8	
-Chlorotoluene	ug/kg	50	40.71	81.4	
3,5-Trimethylbenzene	ug/kg	50	42.78	85.6	
Methyl-Butylbenzene	ug/kg	50	46.44	92.9	
2,4-Trimethylbenzene	ug/kg	50	40.83	81.7	
Dec-Butylbenzene	ug/kg	50	43.70	87.4	
3-Dichlorobenzene	ug/kg	50	39.71	79.4	
Isopropyltoluene	ug/kg	50	40.55	81.1	
4-Dichlorobenzene	ug/kg	50	38.54	77.1	
2-Dichlorobenzene	ug/kg	50	42.23	84.5	
Butylbenzene	ug/kg	50	37.18	74.4	
2-Dibromo-3-Chloropropane	ug/kg	50	42.23	84.5	
2,4-Trichlorobenzene	ug/kg	50	28.89	57.8	2
Aphthalene	ug/kg	50	35.61	71.2	
Exachlorobutadiene	ug/kg	50	43.28	86.6	
2,3-Trichlorobenzene	ug/kg	50	33.58	67.2	2
Bromofluoromethane (S)				102	
2-Dichloroethane-d4 (S)				102	
oluene-d8 (S)				97	
Bromofluorobenzene (S)				103	

 Laboratory Certification IDs  
 NC Wastewater 12  
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 KY Drinking Water 90090  
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 VA Drinking Water 213

**QUALITY CONTROL DATA**

DATE: 06/21/00

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Pace Project Number: 9214808

Client Project ID: Clawson's/97-037-06

LABORATORY CONTROL SAMPLE: 921050399

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
1,1,1-Trifluoroethane	ug/kg	50	30.87	61.7	
1,1-Dichloroethane	ug/kg	50	28.88	57.8	
1,1-Dichloroethene	ug/kg	50	42.42	84.8	
1,1-Dichloromethane	ug/kg	50	44.91	89.8	
1,1-Dichloropropane	ug/kg	50	39.64	79.3	
1,1-Dichlorotetrafluoroethane	ug/kg	50	42.03	84.1	
1,1-Dichloroethene	ug/kg	50	36.97	73.9	
1,1-Dichloroethylene	ug/kg	50	37.05	74.1	
1,1-Dichloroethane	ug/kg	50	38.77	77.5	
1,1-Dichloroethene	ug/kg	50	40.77	81.5	
1,1-Dichloroethane	ug/kg	50	40.04	80.1	
1,1-Dichloropropene	ug/kg	50	37.67	75.3	
1,1-Dichloropropane	ug/kg	50	40.92	81.8	
1,1-Dichlorotetrafluoroethane	ug/kg	50	43.10	86.2	
1,1,1-Trichloroethane	ug/kg	50	39.26	78.5	
1,1,1-Trichloroethene	ug/kg	50	39.46	78.9	
1,1-Dichloroethane	ug/kg	50	39.65	79.3	
1,1-Dichloroethylene	ug/kg	50	39.19	78.4	
1,1-Dichloroethene	ug/kg	50	40.14	80.3	
1,1-Dichloropropene	ug/kg	50	40.14	80.3	
1,1-Dichloropropane	ug/kg	50	42.17	84.3	
1,1-Dichloromethane	ug/kg	50	41.56	83.1	
1,1-Dichlorotetrafluoroethane	ug/kg	50	41.04	82.1	
1,1-Dimethylbenzene	ug/kg	50	39.25	78.5	
1,1-Dimethylbenzene	ug/kg	50	42.20	84.4	
1,1-Dimethylbenzene	ug/kg	50	43.24	86.5	
1,1-Dimethylbenzene	ug/kg	50	44.40	88.8	
1,1-Dimethylbenzene	ug/kg	50	40.63	81.3	
1,1-Dimethylbenzene	ug/kg	50	42.79	85.6	
1,1-Dimethylbenzene	ug/kg	50	40.70	81.4	
1,1,1-Tetrachloroethane	ug/kg	50	43.60	87.2	
1,1-Dimethylbenzene	ug/kg	50	40.32	80.6	
1,1-Dimethylbenzene	ug/kg	100	79.92	79.9	
1,1-Dimethylbenzene	ug/kg	50	39.86	79.7	
1,1-Dimethylbenzene	ug/kg	50	40.16	80.3	
1,1-Dimethylbenzene	ug/kg	50	46.21	92.4	
1,1-Dimethylbenzene	ug/kg	50	42.39	84.8	
1,1-Dimethylbenzene	ug/kg	50	40.59	81.2	
1,1-Dimethylbenzene	ug/kg	50	44.00	88.0	
1,1-Dimethylbenzene	ug/kg	50	39.90	79.8	
1,1-Dimethylbenzene	ug/kg	50	38.96	77.9	

Laboratory Certification IDs

 NC Wastewater 12  
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**QUALITY CONTROL DATA**

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Pace Project Number: 9214808

Client Project ID: Clawson's/97-037-06

LABORATORY CONTROL SAMPLE: 921050399

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Chlorotoluene	ug/kg	50	38.93	77.9	
Chlorotoluene	ug/kg	50	37.18	74.4	
3,5-Trimethylbenzene	ug/kg	50	39.02	78.0	
2,4-Trimethylbenzene	ug/kg	50	40.62	81.2	
2,4-Dichlorobenzene	ug/kg	50	37.70	75.4	
Isopropyltoluene	ug/kg	50	38.64	77.3	
4-Dichlorobenzene	ug/kg	50	36.41	72.8	
2-Dichlorobenzene	ug/kg	50	38.62	77.2	
Butylbenzene	ug/kg	50	35.06	70.1	
2-Dibromo-3-Chloropropane	ug/kg	50	38.62	77.2	
2,4-Trichlorobenzene	ug/kg	50	30.18	60.4	2
Phthalene	ug/kg	50	36.04	72.1	
1,4-Dichlorobutadiene	ug/kg	50	40.16	80.3	
2,3-Trichlorobenzene	ug/kg	50	33.76	67.5	2
Bromofluoromethane (S)				100	
2-Dichloroethane-d4 (S)				100	
Toluene-d8 (S)				98	
Bromofluorobenzene (S)				102	

SAMPLE DUPLICATE: 921045894

Parameter	Units	Dup. Result	RPD	Footnotes
Chlorodifluoromethane	ug/kg	ND	ND	NC
Fluoromethane	ug/kg	ND	ND	NC
Methyl Chloride	ug/kg	ND	ND	NC
Chloromethane	ug/kg	ND	ND	NC
Chloroethane	ug/kg	ND	ND	NC
1,1-Dichlorofluoromethane	ug/kg	ND	ND	NC
1,1-Dichloroethene	ug/kg	ND	ND	NC
1,2-Dihydrochloroethane	ug/kg	ND	ND	NC
trans-1,2-Dichloroethene	ug/kg	ND	ND	NC
1,1-Dichloroethane	ug/kg	ND	ND	NC
trans-1,2-Dichloroethene	ug/kg	ND	ND	NC
2,2-Dichloropropane	ug/kg	ND	ND	NC
Chloroform	ug/kg	ND	ND	NC
Chloromethane	ug/kg	ND	ND	NC
1,1-Trichloroethane	ug/kg	ND	ND	NC

Laboratory Certification IDs

NC Wastewater 12

NC Drinking Water 37706

NC 99006

Laboratory Certification IDs

KY Drinking Water 90090

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VA Drinking Water 213

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QUALITY CONTROL DATA

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Pace Project Number: 9214808

Client Project ID: Clawson's/97-037-06

SAMPLE DUPLICATE: 921045894

Parameter	Units	603563586	Dup. Result	RPD	Footnotes
1,1-Dichloropropene	ug/kg	ND	ND	NC	
1,2-Dichloroethane	ug/kg	ND	ND	NC	
Carbon Tetrachloride	ug/kg	ND	ND	NC	
Chlorobenzene	ug/kg	ND	ND	NC	
Chloroethene	ug/kg	ND	ND	NC	
1,2-Dichloropropane	ug/kg	ND	ND	NC	
Bromomethane	ug/kg	ND	ND	NC	
Bromodichloromethane	ug/kg	ND	ND	NC	
Butene	ug/kg	ND	ND	NC	
1,2-Trichloroethane	ug/kg	ND	ND	NC	
1,3-Dichloropropane	ug/kg	ND	ND	NC	
Bromochloromethane	ug/kg	ND	ND	NC	
Chlorotrichloroethene	ug/kg	ND	ND	NC	
1,2-Dibromoethane	ug/kg	ND	ND	NC	
Chlorobenzene	ug/kg	ND	ND	NC	
1,1,2-Tetrachloroethane	ug/kg	ND	ND	NC	
Chrylbenzene	ug/kg	ND	ND	NC	
p-Xylene	ug/kg	ND	ND	NC	
Styrene	ug/kg	ND	ND	NC	
Xylene (1,2-Dimethylbenzene)	ug/kg	ND	ND	NC	
Cromoform	ug/kg	ND	ND	NC	
1,2,2-Tetrachloroethane	ug/kg	ND	ND	NC	
Isopropylbenzene (Cumene)	ug/kg	ND	ND	NC	
2,3-Trichloropropane	ug/kg	ND	ND	NC	
Chromobenzene	ug/kg	ND	ND	NC	
Propylbenzene	ug/kg	ND	ND	NC	
Chlorotoluene	ug/kg	ND	ND	NC	
Chlorotoluene	ug/kg	ND	ND	NC	
3,5-Trimethylbenzene	ug/kg	ND	ND	NC	
Mt-Butylbenzene	ug/kg	ND	ND	NC	
2,4-Trimethylbenzene	ug/kg	ND	ND	NC	
c-Butylbenzene	ug/kg	ND	ND	NC	
3-Dichlorobenzene	ug/kg	ND	ND	NC	
Isopropyltoluene	ug/kg	ND	ND	NC	
4-Dichlorobenzene	ug/kg	ND	ND	NC	
2-Dichlorobenzene	ug/kg	ND	ND	NC	
Butylbenzene	ug/kg	ND	ND	NC	
2-Dibromo-3-Chloropropane	ug/kg	ND	ND	NC	
2,4-Trichlorobenzene	ug/kg	ND	ND	NC	
Phthalene	ug/kg	ND	ND	NC	
Exachlorobutadiene	ug/kg	ND	ND	NC	

Laboratory Certification IDs

NC Wastewater 12

NC Drinking Water 37706

SC 99006

Laboratory Certification IDs

KY Drinking Water 90090

TN UST List

VA Drinking Water 213

## REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

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Pace Project Number: 9214808  
Client Project ID: Clawson's/97-037-06

AMPLE DUPLICATE: 921045894

Parameter	Units	603563586	Dup. Result	RPD	Footnotes
2,3-Trichlorobenzene	ug/kg	ND	ND	NC	
Bromofluoromethane (S)	%	98	98	0	
2-Dichloroethane-d4 (S)	%	98	97	0	
luene-d8 (S)	%	97	97	0	
Bromofluorobenzene (S)	%	98	99	0	

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
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## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

DATE: 06/21/00

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Boyle Consulting Engineers  
 10 Tyvola Rd.  
 Suite 126  
 Charlotte, NC 28217

Pace Project Number: 9214808

Client Project ID: Clawson's/97-037-06

Attn: Mr. Chuck Boyle  
 Phone: (704)676-0778

Batch ID: 27675

QC Batch Method: EPA 3050

Analysis Method: EPA 6010

Analysis Description: Metals, Trace ICP

Associated Pace Samples:

921045902	921045951	921045969	921045977	921045985
921045993	921046009	921046017	921046025	921046033
921046041	921046058	921046066	921046074	921046082
921046090				

METHOD BLANK: 921046157

Associated Pace Samples:

921045902	921045951	921045969	921045977	921045985	921045993	921046009
921046017	921046025	921046033	921046041	921046058	921046066	921046074
921046082	921046090					

Method

Blank

Parameter

Units

Result

PRL

Footnotes

Lead

mg/kg

ND

0.5

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 921046173 921046181 Matrix Matrix Spike Spike Sp. Dup. Spike Dup

Parameter	Units	921045902	Spike Conc.	Spike Result	% Rec	Sp. Dup. Result	% Rec	Dup RPD	Footnotes
Lead	mg/kg	1144	28.93	1238	324	1254	396	20	3.3

LABORATORY CONTROL SAMPLE: 921046165

Spike LCS

Parameter

Units

Conc.

Result

Spike

% Rec

Footnotes

Lead

mg/kg

25

23.30

93.2

Laboratory Certification IDs  
 NC Wastewater 12  
 NC Drinking Water 37706  
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Pace Project Number: 9214808

Client Project ID: Clawson's/97-037-06

AMPLE DUPLICATE: 921046199

Parameter	Units	921045951	Dup. Result	RPD	Footnotes
Lead	mg/kg	5.500	6.100	9	

Laboratory Certification IDs  
NC Wastewater 12  
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NC 99006

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Boyle Consulting Engineers  
10 Tyvola Rd.  
Suite 126  
Charlotte, NC 28217

Pace Project Number: 9214808

Client Project ID: Clawson's/97-037-06

Contact: Mr. Chuck Boyle  
Phone: (704)676-0778

Batch ID: 27855  
Analysis Method: % Moisture  
Associated Pace Samples:

QC Batch Method:

Analysis Description: Percent Moisture

921045902	921045951	921045969	921045977	921045985
921045993	921046009	921046017	921046025	921046033
921046041	921046058	921046066	921046074	921046082
921046090				

---

AMPLE DUPLICATE: 921053013

Parameter	Units	Dup.	Result	RPD	Footnotes
Percent Moisture	%	3.600	3.600	1	

---

AMPLE DUPLICATE: 921053021

Parameter	Units	Dup.	Result	RPD	Footnotes
Percent Moisture	%	18.00	17.90	1	

Laboratory Certification IDs  
NC Wastewater 12  
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Pace Project Number: 9214808

Client Project ID: Clawson's/97-037-06

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QUALITY CONTROL DATA PARAMETER FOOTNOTES

Inconsistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

Not Detected

Not Calculable

Pace Reporting Limit

Relative Percent Difference

Surrogate

The spike recovery was outside acceptance limits for the MS and /or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

The surrogate and/or spike recovery was outside acceptance limits.

The spike recovery was outside acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
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## REPORT OF LABORATORY ANALYSIS

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Laboratory Certification IDs  
KY Drinking Water 90090  
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Required Client Information:		Section A	Required Client Information:	Section B
Company	Boyle C. - II, Inc.	Report To:	Claud	
Address	811 Twp Rd., P.O.	Invoice To:	CIA	
	City, IL	P.O.		
	Charlevoix, MI 49720	Project Name:	Clemson	
Phone	734-676-5778	Fax:	734-676-1646	Project Number:
				77-CI-7-CG

Section D Required Client Information:		SAMPLE ID
ITEM #	One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	
	Valid Matrix Codes	MATRIX CODE
	MATRIX	CODE
	WATER	WT
	SOIL	SL
	OIL	OL
	WIPE	WP
	AIR	AR
	TISSUE	TS
	OTHER	OT
	MATRIX CODE	

ITEM #	SAMPLE ID	DATE COLLECTED mm / dd / yy	TIME COLLECTED mm : hh a/p	# Containers	Preservatives					Remarks / Lab ID
1	HA-1A	11/21/04	11:21 AM	1 ✓						1045902
2	HA-1B	11/21/04	11:45 AM	1 ✓						1045951
3	HA-2A	11/21/04	11:53 AM	1 ✓						1045969
4	HA-2B	11/21/04	12:28 PM	1 ✓						1045977
5	HA-3A	11/21/04	11:40 AM	1 ✓						1045985
6	HA-3B	11/21/04	11:42 AM	1 ✓						1045993
7	HA-4A	11/21/04	11:59 AM	1 ✓						1046009
8	HA-4B	11/21/04	12:26 PM	1 ✓						1046017
9	HA-5A	11/21/04	12:31 PM	1 ✓						1046025
10	HA-5B	11/21/04	12:38 PM	1 ✓						1046033
11	HA-6A	11/21/04	12:41 PM	1 ✓						1046041
12										

Sample Condition	Sample Notes	Item No.	Relinquished By / Company	Date	Time	Accepted By / Company	Date	Time
Temp in °C:			11/21	11/21	11:22	Pace	11/21	11:22
Received on ICE:	Y / N							
Sealed Cooler:	Y / N							
Samples Intact:	Y / N							

Additional Comments:

## SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

Morrison

SIGNATURE of SAMPLER:

DATE Signed: (MM / DD / YY)

6-15-2006

SEE REVERSE SIDE FOR INSTRUCTIONS

Pace Analytical Services, Inc. Form COC01.XLS 08/98

# Pace Analytical

## CHAIN-OF-CUSTODY / Analytical Request Document

The Right Chemistry, The Right Solution®

The Chain-of-Custody is a **LEGAL DOCUMENT**. All relevant fields must be completed accurately.

513623

To Be Completed by Pace Analytical and Client

**Section C**

Required Client Information: <b>Section A</b>		Required Client Information: <b>Section B</b>	
Company Byle (asst. T.) Address Blu T., NC 5116 111 NC 2217	Report To: C.J. Invoice To: C.J.	P.O. Project Name: Chemical	Project Number: 97-037-CC
Phone	Fax		

Page: 2 of 2

Client Information (Check quote/contract):

Requested Due Date: \*TAT:

- Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.

Turn Around Time (TAT) in calendar days:

Quote Reference:

Project Manager:

Project #:

Profile #:

Requested Analysis:

ITEM #	Section D Required Client Information:  <b>SAMPLE ID</b>  One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE	DATE COLLECTED mm / dd / yy	TIME COLLECTED hh:mm a/p	Preservatives						Remarks / Lab ID	
					# Containers	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> SO <sub>4</sub>	
1	G P - 2	SL	6/15/00	09:30	2 ✓		✓					1046056
2	G P - 3	SL		10:04	2 ✓		✓					1046040
3	G P - 4	SL		10:11	2 ✓		✓	✓				1046014
4	G P - 5			10:18	2 ✓		✓	✓				1046082
5	G P - 6	SL		10:42	2 ✓		✓	✓				1046090
6												
7												
8												
9												
10												
11												
12												

Sample Condition	Sample Notes	Item No.	Relinquished By / Company	Date	Time	Accepted By / Company	Date	Time
Temp in °C:			pacer	6/15/00	14:22	Pace	6/15/00	14:22
Received on ICE:	Y / N							
Sealed Cooler:	Y / N							
Samples Intact:	Y / N							

Additional Comments:

### SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

B. Mazzucco

SIGNATURE of SAMPLER:

Karen

DATE Signed: (MM / DD / YY)

6-15-2000

SEE REVERSE SIDE FOR INSTRUCTIONS

**APPENDIX B**  
**HAZARDOUS WASTE DETERMINATION**

July 05, 2000

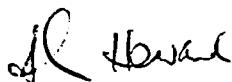
Mr. Chuck Boyle  
Boyle Consulting Engineers  
810 Tyvola Rd.  
Suite 126  
Charlotte, NC 28217

RE: Pace Project Number: 9215105  
Client Project ID: Clawson's/97-037-06(TCLP)

Dear Mr. Boyle:

Enclosed are the analytical results for sample(s) received by the laboratory on June 15, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Sherri Howard  
Project Manager

Enclosures

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
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Laboratory Certification IDs  
KY Drinking Water 90090  
TN UST List  
VA Drinking Water 213

DATE: 07/05/00

PAGE: 1

Boyle Consulting Engineers  
10 Tyvola Rd.  
Suite 126  
Charlotte, NC 28217

Pace Project Number: 9215105

Client Project ID: Clawson's/97-037-06(TCLP)

Attn: Mr. Chuck Boyle  
Phone: (704)676-0778

Solid results are reported on a dry weight basis

Sample No:	921067229	Date Collected:	06/15/00	Matrix:	Soil
Client Sample ID:	HA-1A	Date Received:	06/15/00		
Parameters	Results	Units	PRL	App. DF	Analyzed
					Analyst
					CAS#
					Footnotes
Organics Prep					
Trace ICP Metals, TCLP Leach.		Method: EPA 6010		Prep Method: EPA 1311	
Date Digested				06/29/00	
Metals					
Trace ICP Metals, TCLP Leach.		Method: EPA 6010		Prep Method: EPA 3010	
Lead	6.5	mg/l	0.025	07/03/00	RWF 7439-92-1
Date Digested				07/03/00	

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

## REPORT OF LABORATORY ANALYSIS

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Laboratory Certification IDs  
KY Drinking Water 90090  
TN UST List  
VA Drinking Water 213

DATE: 07/05/00

PAGE: 2

Pace Project Number: 9215105

Client Project ID: Clawson's/97-037-06(TCLP)

Sample No:	921067260	Date Collected:	06/15/00	Matrix:	Soil
Client Sample ID:	HA-3A	Date Received:	06/15/00		

DATE: 07/05/00

PAGE: 3

Pace Project Number: 9215105

Client Project ID: Clawson's/97-037-06(TCLP)

---

**PARAMETER FOOTNOTES**

ND Not Detected

NC Not Calculable

PL Pace Reporting Limit

DF Applied Dilution Factor

---

**Laboratory Certification IDs**  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

---

**REPORT OF LABORATORY ANALYSIS**This report shall not be reproduced, except in full,  
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---

**Laboratory Certification IDs**  
KY Drinking Water 90090  
TN UST List  
VA Drinking Water 213

**QUALITY CONTROL DATA**
**DATE: 07/05/00**
**PAGE: 4**

Boyle Consulting Engineers  
 10 Tyvola Rd.  
 Suite 126  
 Charlotte, NC 28217

Pace Project Number: 9215105

Client Project ID: Clawson's/97-037-06(TCLP)

Attn: Mr. Chuck Boyle  
 Phone: (704)676-0778

Batch ID: 28343  
 Analysis Method: EPA 6010  
 Associated Pace Samples: 921067229

QC Batch Method: EPA 3010

 Analysis Description: Trace ICP Metals, TCLP Leach.  
 921067260

METHOD BLANK: 921072807  
 Associated Pace Samples:

921067229 921067260

**Method**

Blank

Parameter	Units	Result	PRL	Footnotes
Lead	mg/l	ND	0.025	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 921072815 921072823 Matrix Matrix Spike

Parameter	Units	Spike Conc.	Spike Result	Matrix % Rec	Matrix Result	Spike % Rec	Spike Dup.	RPD	Footnotes
Lead	mg/l	6.500	1.250	8.000	120	7.850	108	11	

BORATORY CONTROL SAMPLE: 921072849

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Spike Footnotes
Lead	mg/l	1.250	1.155	92.4	

AMPLE DUPLICATE: 921072831

Parameter	Units	Dup. Result	RPD	Footnotes
Lead	mg/l	7.600	8.100	7

Laboratory Certification IDs  
 NC Wastewater 12  
 NC Drinking Water 37706  
 SC 99006

Laboratory Certification IDs  
 KY Drinking Water 90090  
 TN UST List  
 VA Drinking Water 213

**REPORT OF LABORATORY ANALYSIS**

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DATE: 07/05/00

PAGE: 5

Pace Project Number: 9215105

Client Project ID: Clawson's/97-037-06(TCLP)

---

QUALITY CONTROL DATA PARAMETER FOOTNOTES

onsistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

ND Not Detected

NC Not Calculable

RL Pace Reporting Limit

RD Relative Percent Difference

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

## REPORT OF LABORATORY ANALYSIS

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Laboratory Certification IDs  
KY Drinking Water 90090  
TN UST List  
VA Drinking Water 213

498435

Required Client Information: Section A		Required Client Information: Section B		Page: 1 of 2	To Be Completed by Pace Analytical and Client		Section C			
<p>Company: Boyle Consulting Eng Address: 80 Toyota Rd Site: 126 Charlotte, NC 28217 Phone: 704-676-0778 Fax: 704-676-0546</p>		<p>Report To: Client Invoice To: Client P.O.: Project Name: Clawsout Project Number: T1-037-06</p>		<p>Client Information (Check quote/contract): Requested Due Date: TAT:</p>		<p>Quote Reference: Project Manager: SNH Project #: 14808 15105 Profile #: Requested Analysis:</p>				
<p><b>Section D</b> <b>SAMPLE ID</b> One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE</p>		<p>Valid Matrix Codes ←            MATRIX            CODE            WATER            WT            SOIL             SL            OIL              OL            WIPE             WP            AIR              AR            TISSUE          TS            OTHER           OT MATRIX CODE →</p>		<p>DATE COLLECTED mm / dd / yy mm:hh a/p</p>	<p>TIME COLLECTED mm:hh a/p</p>	<p># Containers Unpreserved    H<sub>2</sub>SO<sub>4</sub>    HNO<sub>3</sub>    HCl    NaOH    Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub></p>	<p><b>Preservatives</b></p>		<p>Remarks / Lab ID</p>	
HA - 1A	WT	11:27	1 ✓				✓	✓	1045902	
HA - 1B	WT	11:35	1 ✓				✓	✓	1045951	
HA - 2A	SL	9:33	1 ✓				✓	✓	1045909	
HA - 2B	SL	10:28	1 ✓				✓	✓	1045977	
HA - 3A	OL	11:40	1 ✓				✓	✓	1045985	
HA - 3B	OL	11:42	1 ✓				✓	✓	1045993	
HA - 4A	WP	11:19	1 ✓				✓	✓	1046009	
HA - 4B	WP	11:26	1 ✓				✓	✓	1046017	
HA - 5A	AR	9:31	1 ✓				✓	✓	1046025	
HA - 5B	TS	9:38	1 ✓	✓	✓	1046033				
GP - 1	OT	9:41	1 ✓	✓	✓	1046041				
Sample Condition	Sample Notes	Item No.	Relinquished By / Company	Date	Time	Accepted By / Company	Date	Time		
Temp In °C:			Pace	05/08/2022	14:22	Pace	05/08/2022	14:22		
Received on ICE:	Y / N									
Sealed Cooler:	X / N									
Samples Intact:	Y / N									

**Additional Comments:**

**SAMPLER NAME AND SIGNATURE**

**PRINT Name of SAMPLE**

SIGNATURE of SAMPLER

DATE Signed: (MM / DD / YY)

**APPENDIX C:**  
**TANK EXCAVATION SAMPLING – July 7, 2000**

July 21, 2000

Mr. Chuck Boyle  
Boyle Consulting Engineers  
810 Tyvola Rd.  
Suite 126  
Charlotte, NC 28217

RE: Pace Project Number: 9215366  
Client Project ID: 97-037-06 OS

Dear Mr. Boyle:

Enclosed are the analytical results for sample(s) received by the laboratory on July 10, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Sherri Howard  
Project Manager

Enclosures

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
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Laboratory Certification IDs  
KY Drinking Water 90090  
TN UST List  
VA Drinking Water 213

DATE: 07/21/00

PAGE: 1

Boyle Consulting Engineers  
 10 Tyvola Rd.  
 Site 126  
 Charlotte, NC 28217

Pace Project Number: 9215366  
 Client Project ID: 97-037-06

Attn: Mr. Chuck Boyle  
 Phone: (704)676-0778

All results are reported on a dry weight basis

Sample No:	921081691	Date Collected:	07/07/00	Matrix:	Soil
Client Sample ID:	S-1	Date Received:	07/10/00		
<hr/>					
Parameters	Results	Units	PRL	App. DF	Analyzed
					Analyst
					CAS#
					Footnotes
<hr/>					
Element Chemistry					
Percent Moisture		Method: % Moisture			Prep Method:
Percent Moisture	17.5	%		0.82	07/12/00 CDE
<hr/>					
Volatile Organics					
GAS, Soil		Method: EPA 8015 Modified			Prep Method: EPA 8015 Modified
Gasoline	520	mg/kg	73	10.0	07/20/00 SRR
4-Bromofluorobenzene (S)	0	%		0.82	07/20/00 SRR 460-00-4
					1
<hr/>					
Semivolatiles					
TPH in Soil by 8015 Modified		Method: EPA 8015 Modified			Prep Method: EPA 3550
Diesel Fuel	2600	mg/kg	610	100	07/13/00 SRR 11-84-7
n-Pentacosane (S)	0	%		0.82	07/13/00 SRR 629-99-2
Date Extracted					07/11/00
					1

Laboratory Certification IDs  
 NC Wastewater 12  
 NC Drinking Water 37706  
 SC 99006

Laboratory Certification IDs  
 KY Drinking Water 90090  
 TN UST List  
 VA Drinking Water 213

## REPORT OF LABORATORY ANALYSIS

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DATE: 07/21/00

PAGE: 2

Pace Project Number: 9215366

Client Project ID: 97-037-06

Pace Sample No:	921081709	Date Collected:	07/07/00	Matrix:	Soil
Client Sample ID:	S-2	Date Received:	07/10/00		
Parameters	Results	Units	PRL	App. DF	Analyzed Analyst CAS# Footnotes
<b>Net Chemistry</b>					
Percent Moisture		Method: % Moisture		Prep Method:	
Percent Moisture	19.0	%	0.81	07/12/00	CDE
<b>Volatiles</b>					
GAS, Soil		Method: EPA 8015 Modified		Prep Method: EPA 8015 Modified	
Gasoline	910	mg/kg	74	07/20/00	SRR
4-Bromofluorobenzene (S)	0	%	10.0	07/20/00	SRR
			0.81	460-00-4	
					1
<b>Semivolatiles</b>					
TPH in Soil by 8015 Modified		Method: EPA 8015 Modified		Prep Method: EPA 3550	
Diesel Fuel	8200	mg/kg	620	07/12/00	SRR
n-Pentacosane (S)	0	%	100	07/12/00	SRR
Date Extracted			0.81	629-99-2	
				07/11/00	
					1

## REPORT OF LABORATORY ANALYSIS

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DATE: 07/21/00

PAGE: 3

Pace Project Number: 9215366

Client Project ID: 97-037-06

---

AMETER FOOTNOTES

Not Detected

Not Calculable

Pace Reporting Limit

Surrogate

DF Applied Dilution Factor

Spike and/or surrogate recoveries could not be calculated due to sample dilution.

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

## REPORT OF LABORATORY ANALYSIS

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Laboratory Certification IDs  
KY Drinking Water 90090  
TN UST List  
VA Drinking Water 213

**QUALITY CONTROL DATA**

DATE: 07/21/00

PAGE: 4

Boyle Consulting Engineers  
 20 Tyvola Rd.  
 Suite 126  
 Charlotte, NC 28217

Pace Project Number: 9215366  
 Client Project ID: 97-037-06

Contact: Mr. Chuck Boyle  
 Phone: (704)676-0778

Batch ID: 28538 QC Batch Method: EPA 3550  
 Analysis Method: EPA 8015 Modified Analysis Description: TPH in Soil by 8015 Modified  
 Associated Pace Samples: 921081691 921081709

METHOD BLANK: 921082558  
 Associated Pace Samples:

	921081691	921081709	Method			
			Result	PRL	Footnotes	
Parameter	Units					
Diesel Fuel	mg/kg	ND	5			
Pentacosane (S)	%	80				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 921079661 921079679 Matrix Matrix Spike

	921076576	Spike Conc.	LCS Result	Spike % Rec	Sp. Dup. Result	Dup % Rec	RPD	Footnotes
Parameter	Units							
Diesel Fuel	mg/kg	0	208.3	116.8	56.1	111.6	53.6	5
Pentacosane (S)					77		72	

LABORATORY CONTROL SAMPLE: 921078465

	921076576	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Parameter	Units				
Diesel Fuel	mg/kg	166.7	102.7	61.6	
Pentacosane (S)				71	

AMPLE DUPLICATE: 921082566

	921081725	Dup. Result	RPD	Footnotes
Parameter	Units			
Diesel Fuel	mg/kg	2500	2600	1

Laboratory Certification IDs  
 NC Wastewater 12  
 NC Drinking Water 37706  
 SC 99006

## REPORT OF LABORATORY ANALYSIS

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Laboratory Certification IDs  
 KY Drinking Water 90090  
 TN UST List  
 VA Drinking Water 213

QUALITY CONTROL DATA

DATE: 07/21/00

PAGE: 5

Pace Project Number: 9215366

Client Project ID: 97-037-06

---

SAMPLE DUPLICATE: 921082566

Parameter	Units	921081725	Dup. Result	RPD	Footnotes
Pentacosane (S)	x	135	0	0	1

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

## REPORT OF LABORATORY ANALYSIS

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Laboratory Certification IDs  
KY Drinking Water 90090  
TN UST List  
VA Drinking Water 213

## QUALITY CONTROL DATA

DATE: 07/21/00

PAGE: 6

Boyle Consulting Engineers  
10 Tyvola Rd.  
Suite 126  
Charlotte, NC 28217

Attn: Mr. Chuck Boyle  
Phone: (704)676-0778

Batch ID: 28695  
Analysis Method: % Moisture  
Associated Pace Samples:

921081691

QC Batch Method:  
Analysis Description: Percent Moisture  
921081709

Pace Project Number: 9215366  
Client Project ID: 97-037-06

---

AMPLE DUPLICATE: 921084729

Parameter	Units	921081717	Dup. Result	RPD	Footnotes
Percent Moisture	%	21.60	22.50	4	

---

AMPLE DUPLICATE: 921084737

Parameter	Units	921084398	Dup. Result	RPD	Footnotes
Percent Moisture	%	26.20	26.10	0	

---

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

**REPORT OF LABORATORY ANALYSIS**

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Laboratory Certification IDs  
KY Drinking Water 90090  
TN UST List  
VA Drinking Water 213

QUALITY CONTROL DATA

DATE: 07/21/00

PAGE: 7

Boyle Consulting Engineers  
 10 Tyvola Rd.  
 Suite 126  
 Charlotte, NC 28217

Pace Project Number: 9215366  
 Client Project ID: 97-037-06

Attn: Mr. Chuck Boyle  
 Phone: (704)676-0778

Batch ID: 28939                            QC Batch Method: EPA 8015 Modified  
 Analysis Method: EPA 8015 Modified     Analysis Description: GAS, Soil  
 Associated Pace Samples: 921081691     921081709

METHOD BLANK: 921095485  
 Associated Pace Samples:

	921081691	921081709	Method
			Blank
Parameter	Units	Result	PRL
Isoline	mg/kg	ND	6
Bromofluorobenzene (S)	%	103	

LABORATORY CONTROL SAMPLE: 921095493

	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Parameter					
Isoline	mg/kg	50	58.66	117	
Bromofluorobenzene (S)				124	

SAMPLE DUPLICATE: 921095501

	Units	921076576	Dup. Result	RPD	Footnotes
Parameter					
Isoline	mg/kg	9.900	9.600	3	
Bromofluorobenzene (S)	%	98	128	0	

Laboratory Certification IDs  
 NC Wastewater 12  
 NC Drinking Water 37706  
 SC 99006

## REPORT OF LABORATORY ANALYSIS

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Laboratory Certification IDs  
 KY Drinking Water 90090  
 TN UST List  
 VA Drinking Water 213

DATE: 07/21/00  
PAGE: 8

Pace Project Number: 9215366  
Client Project ID: 97-037-06

---

ALITY CONTROL DATA PARAMETER FOOTNOTES

nsistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

Not Detected  
Not Calculable  
Pace Reporting Limit  
Relative Percent Difference  
Surrogate  
Spike and/or surrogate recoveries could not be calculated due to sample dilution.

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

## REPORT OF LABORATORY ANALYSIS

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Laboratory Certification IDs  
KY Drinking Water 90090  
TN UST List  
VA Drinking Water 213

513626

Required Client Information: **Section A** Required Client Information: **Section B**

Company Buyer (L.L.C.)	Report To: S.I.J.
Address 800 Cypress Rd.	Invoice To: S.I.J.
Suite 126	P.O.
Charlotte, NC 28217	Project Name:
Phone: (704) 577-3773	Fax: (704) 577-3776
Project Number: 97-037-06	

Page: 1 of 1

To Be Completed by Pace Analytical and Client

**Section C**

Quote Reference:	
Project Manager:	BSNH
Project #:	9215306
Profile #:	
Requested Analysis:	
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	

**Section D** Required Client Information:**SAMPLE ID**One character per box.  
(A-Z, 0-9 / -)

Sample IDs MUST BE UNIQUE

Valid Matrix Codes	
MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	DATE COLLECTED	TIME COLLECTED	# Containers	Preservatives					Remarks / Lab ID
				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	
1	SL	7/17/06 15:30	2 ✓						921081691
2	SL	7/17/06 15:30	2 ✓						921081709
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									

Sample Condition	Sample Notes	Item No.	Relinquished By / Company	Date	Time	Accepted By / Company	Date	Time
Temp in °C:			B. T. Ryan / BCF	7/10	15:43	David R. Myers / Pace	7/10	12:43
Received on ICE:	Y / N		David R. Myers	7/10/06	13:10	1110	7/10	13:10
Sealed Cooler:	Y / N							
Samples Intact:	Y / N							

Additional Comments:

## SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: (MM / DD / YY)

SEE REVERSE SIDE FOR INSTRUCTIONS

Pace Analytical Services, Inc. Form COC01.XLS 12/99

**APPENDIX D:**  
**CONFIRMATORY SAMPLING – July 28, 2000**



Pace Analytical Services, Inc.  
9800 Kinney Avenue, Suite 100  
Huntersville, NC 28078  
Phone: 704.875.9092  
Fax: 704.875.9091

August 03, 2000

Mr. Chuck Boyle  
Boyle Consulting Engineers  
810 Tyvola Rd.  
Suite 126  
Charlotte, NC 28217

RE: Pace Project Number: 9215923  
Client Project ID: Lead

Dear Mr. Boyle:

Enclosed are the analytical results for sample(s) received by the laboratory on July 28, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "SH Howard".

Sherri Howard  
Project Manager

Enclosures

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

## REPORT OF LABORATORY ANALYSIS

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Laboratory Certification IDs  
KY Drinking Water 90090  
TN UST List  
VA Drinking Water 213



Pace Analytical Services, Inc.  
9800 Kinney Avenue, Suite 100  
Huntersville, NC 28078  
Phone: 704.875.9092  
Fax: 704.875.9091

DATE: 08/03/00  
PAGE: 1

Boyle Consulting Engineers  
810 Tyvola Rd.  
Suite 126  
Charlotte, NC 28217

Pace Project Number: 9215923  
Client Project ID: Lead

Attn: Mr. Chuck Boyle  
Phone: (704)676-0778

Solid results are reported on a dry weight basis

Pace Sample No:	921119434	Date Collected:	07/28/00	Matrix:	Soil
Client Sample ID:	HA-1	Date Received:	07/28/00		
Parameters	Results	Units	PRL	App. DF	Analyzed Analyst CAS# Footnotes
<hr/>					
Metals					
Metals, Trace ICP		Method: EPA 6010			Prep Method: EPA 3050
Lead	4.8	mg/kg	0.5	0.91	08/02/00 RWF 7439-92-1
Date Digested					08/01/00
<hr/>					
Wet Chemistry					
Percent Moisture		Method: % Moisture			Prep Method:
Percent Moisture	9.6	%		0.90	08/01/00 YMH

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

## REPORT OF LABORATORY ANALYSIS

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Laboratory Certification IDs  
KY Drinking Water 90090  
TN UST List  
VA Drinking Water 213



Pace Analytical Services, Inc.  
9800 Kinney Avenue, Suite 100  
Huntersville, NC 28078  
Phone: 704.875.9092  
Fax: 704.875.9091

DATE: 08/03/00  
PAGE: 2

Pace Project Number: 9215923  
Client Project ID: Lead

Pace Sample No:	921119442	Date Collected:	07/28/00	Matrix:	Soil
Client Sample ID:	HA-2	Date Received:	07/28/00		

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
------------	---------	-------	-----	---------	----------	---------	------	-----------

#### Metals

Metals, Trace ICP	Method: EPA 6010			Prep Method: EPA 3050		
Lead	46	mg/kg	0.44	0.83	08/02/00	RWF 7439-92-1
Date Digested					08/01/00	

#### Wet Chemistry

Percent Moisture	Method: % Moisture			Prep Method:		
Percent Moisture	6.2	%		0.94	08/01/00	YMH

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

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9800 Kinney Avenue, Suite 100  
Huntersville, NC 28078  
Phone: 704.875.9092  
Fax: 704.875.9091

DATE: 08/03/00  
PAGE: 3

Pace Project Number: 9215923  
Client Project ID: Lead

Pace Sample No:	921119459	Date Collected:	07/28/00	Matrix:	Soil
Client Sample ID:	HA-3	Date Received:	07/28/00		
Parameters	Results	Units	PRL	App. DF	Analyzed Analyst CAS# Footnotes
<hr/>					
Metals					
Metals, Trace ICP Lead Date Digested	170	Method: EPA 6010 mg/kg	0.47	0.88	Prep Method: EPA 3050 08/02/00 RWF 7439-92-1 08/01/00
Net Chemistry					
Percent Moisture	6.3	Method: % Moisture %		0.94	Prep Method: 08/01/00 YMH

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

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Pace Analytical Services, Inc.  
9800 Kinney Avenue, Suite 100  
Huntersville, NC 28078  
Phone: 704.875.9092  
Fax: 704.875.9091

DATE: 08/03/00  
PAGE: 4

Pace Project Number: 9215923  
Client Project ID: Lead

Pace Sample No:	921119467	Date Collected:	07/28/00	Matrix:	Soil
Client Sample ID:	HA-4	Date Received:	07/28/00		
Parameters	Results	Units	PRL	App. DF	Analyzed Analyst CAS# Footnotes
<hr/>					
Metals					
Metals, Trace ICP		Method: EPA 6010		Prep Method: EPA 3050	
Lead	1800	mg/kg	0.45	08/02/00 RWF	7439-92-1
Date Digested				08/01/00	
<hr/>					
Wet Chemistry					
Percent Moisture		Method: % Moisture		Prep Method:	
Percent Moisture	8.0	%	0.92	08/01/00 YMH	

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

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VA Drinking Water 213

Pace Analytical™  
www.pacolabs.com

Pace Analytical Services, Inc.  
9800 Kinney Avenue, Suite 100  
Huntersville, NC 28078  
Phone: 704.875.9092  
Fax: 704.875.9091

DATE: 08/03/00  
PAGE: 5

Pace Project Number: 9215923  
Client Project ID: Lead

Pace Sample No:	921119475	Date Collected:	07/28/00	Matrix:	Soil
Client Sample ID:	HA-5	Date Received:	07/28/00		

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
------------	---------	-------	-----	---------	----------	---------	------	-----------

#### Metals

Metals, Trace ICP	Method: EPA 6010			Prep Method: EPA 3050		
Lead	770	mg/kg	0.47	0.88	08/02/00	RWF 7439-92-1
Date Digested					08/01/00	

#### Wet Chemistry

Percent Moisture	Method: % Moisture			Prep Method:		
Percent Moisture	7.0	%		0.93	08/01/00	YMH

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

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**Pace Analytical™**[www.pacelabs.com](http://www.pacelabs.com)

**Pace Analytical Services, Inc.**  
9800 Kinney Avenue, Suite 100  
Huntersville, NC 28078  
Phone: 704.875.9092  
Fax: 704.875.9091

DATE: 08/03/00  
PAGE: 6

Pace Project Number: 9215923  
Client Project ID: Lead

---

**PARAMETER FOOTNOTES**

ND Not Detected  
NC Not Calculable  
PRL Pace Reporting Limit  
App. DF Applied Dilution Factor

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

## REPORT OF LABORATORY ANALYSIS

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Laboratory Certification IDs  
KY Drinking Water 90090  
TN UST List  
VA Drinking Water 213

558570

Required Client Information: <b>Section A</b>		Required Client Information: <b>Section B</b>		Page: <b>of</b>	To Be Completed by Pace Analytical and Client <b>Section C</b>																			
Company: <b>Boyle Consulting Engineers</b> Address: <b>816 Taylor, Rd. Ste. 126</b> <b>Charlotte, NC 28212</b> NO. 651		Report To: <b>Client</b> Invoice To: <b>Client</b> P.O.: <b>11194</b> Project Name: <b>11194</b> Phone: <b>(704) 555-6770</b> Fax: <b>(704) 555-6776</b>		Client Information (Check quote/contract): Requested Due Date: <b>7-28-00</b> TAT: <b>11:30 AM</b> • Turn around times less than 14 days subject to laboratory and contractual obligations and may result in Rush Turnaround Surcharge. • Turn Around Time (TAT) in calendar days.		Quote Reference:																		
<b>Section D</b> Required Client Information: <b>SAMPLE ID</b> One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE		Valid Matrix Codes <table border="1"> <tr> <td>MATRIX</td> <td>CODE</td> </tr> <tr> <td>WATER</td> <td>WT</td> </tr> <tr> <td>SOIL</td> <td>SL</td> </tr> <tr> <td>OIL</td> <td>OL</td> </tr> <tr> <td>WIPE</td> <td>WP</td> </tr> <tr> <td>AIR</td> <td>AR</td> </tr> <tr> <td>TISSUE</td> <td>TS</td> </tr> <tr> <td>OTHER</td> <td>OT</td> </tr> </table> MATRIX CODES		MATRIX	CODE	WATER	WT	SOIL	SL	OIL	OL	WIPE	WP	AIR	AR	TISSUE	TS	OTHER	OT	DATE COLLECTED	TIME COLLECTED	<b>Preservatives</b> # Containers Undiluted      H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> HCl      NaOH      Na <sub>2</sub> SO <sub>4</sub>		Remarks / Lab ID
MATRIX	CODE																							
WATER	WT																							
SOIL	SL																							
OIL	OL																							
WIPE	WP																							
AIR	AR																							
TISSUE	TS																							
OTHER	OT																							
ITEM #		mm / dd / yy	hh:mm a/p																					
1	HA-1			SL	7-28-00	12:30	✓						1119434											
2	HA-2						✓						1119442											
3	HA-3						✓						1119459											
4	HA-4						✓						1119467											
5	HA-5						✓						1119475											
6																								
7																								
8																								
9																								
10																								
11																								
12																								
Sample Condition		Sample Notes		Item No.	Relinquished By / Company	Date	Time	Accepted By / Company		Date	Time													
Temp In °C: <b>24.9</b>					<b>Mark D. Rabinette</b>	<b>7-28-01:30</b>	<b>Pamela K. Scott</b>			<b>7-28-01:30</b>														
Received on ICE: <b>Y / N</b>																								
Sealed Cooler: <b>Y / N</b>																								
Samples Intact: <b>Y / N</b>																								

Additional Comments:

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER:

*Mark D. Rabinette*

SIGNATURE OF SAMPLER: *Mark D. Rabinette*

DATE Signed: (MM/DD/YY) **7-28-00**

SEE REVERSE SIDE FOR INSTRUCTIONS

**APPENDIX E:**  
**CONFIRMATORY SAMPLING – August 23, 2000**



Pace Analytical Services, Inc.  
9800 Kincey Avenue, Suite 100  
Huntersville, NC 28078  
Phone: 704.875.9092  
Fax: 704.875.9091

August 31, 2000

Mr. Chuck Boyle  
Boyle Consulting Engineers  
810 Tyvola Rd.  
Suite 126  
Charlotte, NC 28217

RE: Pace Project Number: 9216561  
Client Project ID: Lead

Dear Mr. Boyle:

Enclosed are the analytical results for sample(s) received by the laboratory on August 23, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Sherri Howard".

Sherri Howard  
Project Manager

Enclosures

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

## REPORT OF LABORATORY ANALYSIS

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Laboratory Certification IDs  
KY Drinking Water 90090  
TN UST List  
VA Drinking Water 213

DATE: 08/31/00

PAGE: 1

Boyle Consulting Engineers  
10 Tyvola Rd.  
Suite 126  
Charlotte, NC 28217

Pace Project Number: 9216561  
Client Project ID: Lead

Attn: Mr. Chuck Boyle  
Phone: (704)676-0778

All results are reported on a dry weight basis

Sample No:	921165692	Date Collected:	08/23/00	Matrix:	Soil
Client Sample ID:	HA-4	Date Received:	08/23/00		
Parameters	Results	Units	PRL	App. DF	Analyzed Analyst CAS# Footnotes
Metals					
Metals, Trace ICP		Method: EPA 6010			Prep Method: EPA 3050
Lead	940	mg/kg	0.51	0.96	08/29/00 RWF 7439-92-1
Date Digested					08/29/00
Percent Moisture		Method: % Moisture			Prep Method:
Percent Moisture	6.6	%		0.93	08/31/00 CBJ

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

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Laboratory Certification IDs  
KY Drinking Water 90090  
TN UST List  
VA Drinking Water 213

DATE: 08/31/00

PAGE: 2

Pace Project Number: 9216561

Client Project ID: Lead

Pace Sample No:	921165700	Date Collected:	08/23/00	Matrix:	Soil
Client Sample ID:	HA-5	Date Received:	08/23/00		
<hr/>					
Parameters	Results	Units	PRL	App. DF	Analyzed Analyst CAS# Footnotes
Metals					
Metals, Trace ICP			Method: EPA 6010		Prep Method: EPA 3050
Lead	570	mg/kg	0.62	1.09	08/29/00 RWF 7439-92-1
Date Digested					08/29/00
<hr/>					
Percent Chemistry					
Percent Moisture			Method: % Moisture		Prep Method:
Percent Moisture	12.5	%		0.88	08/31/00 CBJ

Laboratory Certification IDs  
 NC Wastewater 12  
 NC Drinking Water 37706  
 SC 99006

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 VA Drinking Water 213



Pace Analytical Services, Inc.  
9800 Kincey Avenue, Suite 100  
Huntersville, NC 28078  
Phone: 704.875.9092  
Fax: 704.875.9091

DATE: 08/31/00  
PAGE: 3

Pace Project Number: 9216561  
Client Project ID: Lead

---

METER FOOTNOTES

ND Not Detected  
NC Not Calculable  
PL Pace Reporting Limit  
p. DF Applied Dilution Factor

Laboratory Certification IDs  
JC Wastewater 12  
JC Drinking Water 37706  
JC 99006

## REPORT OF LABORATORY ANALYSIS

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Laboratory Certification IDs  
KY Drinking Water 90090  
TN UST List  
VA Drinking Water 213

**QUALITY CONTROL DATA**
**DATE: 08/31/00**
**PAGE: 4**

Boyle Consulting Engineers  
 10 Tyvola Rd.  
 Suite 126  
 Charlotte, NC 28217

Pace Project Number: 9216561  
 Client Project ID: Lead

Attn: Mr. Chuck Boyle  
 phone: (704)676-0778

Batch ID: 30979                            QC Batch Method: EPA 3050  
 Analysis Method: EPA 6010                 Analysis Description: Metals, Trace ICP  
 Associated Pace Samples: 921165692      921165700

METHOD BLANK: 921176459  
 Associated Pace Samples:

	921165692	921165700	Method		
			Blank		
Parameter	Units	Result	PRL	Footnotes	
Lead	mg/kg	ND	0.5		

---

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		921176475	921176483	Matrix	Matrix	Spike					
Parameter	Units			Spike	Spike	Sp. Dup.	Dup				
				Conc.	Result	% Rec	Result				
Lead	mg/kg			12.06	26.21	29.15	65.2	26.51	53.2	20	1.1

---

LABORATORY CONTROL SAMPLE: 921176467

	Units	Spike	LCS	Spike	
Parameter		Conc.	Result	% Rec	Footnotes
Lead	mg/kg	25	22.40	89.6	

SAMPLE DUPLICATE: 921176491

	Units	921165692	Dup.	
Parameter			Result	RPD
Lead	mg/kg	940.0	1000	5

Laboratory Certification IDs  
 NC Wastewater 12  
 NC Drinking Water 37706  
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QUALITY CONTROL DATA

DATE: 08/31/00

PAGE: 5

Boyle Consulting Engineers  
10 Tyvola Rd.  
uite 126  
harlotte, NC 28217

Pace Project Number: 9216561

Client Project ID: Lead

ttin: Mr. Chuck Boyle  
hone: (704)676-0778

C Batch ID: 31113  
nalysis Method: % Moisture  
ssociated Pace Samples:

921165692

QC Batch Method:  
Analysis Description: Percent Moisture  
921165700

---

AMPLE DUPLICATE: 921183851

Parameter	Units	Dup. 921169223	Result	RPD	Footnotes
Percent Moisture	%	10.50	9.000	16	

---

AMPLE DUPLICATE: 921183869

Parameter	Units	Dup. 921175725	Result	RPD	Footnotes
Percent Moisture	%	17.90	18.20	2	

---

Laboratory Certification IDs  
NC Wastewater 12  
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DATE: 08/31/00

PAGE: 6

Pace Project Number: 9216561

Client Project ID: Lead

---

#### QUALITY CONTROL DATA PARAMETER FOOTNOTES

consistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

Not Detected

Not Calculable

Pace Reporting Limit

Relative Percent Difference

The spike recovery was outside acceptance limits for the MS and /or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
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VA Drinking Water 213

# Pace Analytical

# CHAIN-OF-CUSTODY Analytical Request Document

The Chain-of-Custody Is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**558571**

Required Client Information:		<b>Section A</b>		Required Client Information:		<b>Section B</b>		Page:      of		To Be Completed by Pace Analytical and Client		<b>Section C</b>				
Company		Report To:		Client		Client Information (Check quote/contract):		Requested Due Date:		TAT:		Quote Reference:				
Address		Invoice To:		Client								Project Manager:				
Charlotte N.C.		P.O.										Project #: 165601				
Phone		Project Name:										Profile #:				
Fax		Project Number:										Requested Analysis:				
<b>ITEM #</b>	<b>Section D</b>		Required Client Information:		Valid Matrix Codes		<b>MATRIX CODE</b>	DATE COLLECTED	TIME COLLECTED	# Containers	<b>Preservatives</b>					<b>Remarks / Lab ID</b>
	<b>SAMPLE ID</b>		One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE		WATER	WT					Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	
1	HA	-	4				L	8-22-01	10:00 a.m.	1					1165692	
2	HA	-	5				L	8-22-01	10:00 a.m.	1					1165700	
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
Sample Condition		Sample Notes		Item No.	Relinquished By / Company		Date	Time	Accepted By / Company		Date	Time				
Temp in °C:		30			Mark D. Robins		8/23	10:26	Budget Hanson		8/23	10:26				
Received on ICE:		Y / N														
Sealed Cooler:		Y / N														
Samples Intact:		Y / N														

Additional Comments:

### SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

Mark D. Robins

SIGNATURE of SAMPLER:

Mark D. Robins

DATE Signed: (MM / DD / YY)

8-23-00

SEE REVERSE SIDE FOR INSTRUCTIONS

**APPENDIX F:**  
**CONFIRMATORY SAMPLING – October 16, 2000**

October 20, 2000

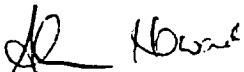
Mr. Chuck Boyle  
Boyle Consulting Engineers  
810 Tyvola Rd.  
Suite 126  
Charlotte, NC 28217

RE: Pace Project Number: 9217809  
Client Project ID: Lead

Dear Mr. Boyle:

Enclosed are the analytical results for sample(s) received by the laboratory on October 16, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Sherri Howard  
Project Manager

Enclosures

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

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Laboratory Certification IDs  
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TN UST List  
VA Drinking Water 213

DATE: 10/20/00

PAGE: 1

Boyle Consulting Engineers  
10 Tyvola Rd.  
Suite 126  
Charlotte, NC 28217

Pace Project Number: 9217809

Client Project ID: Lead

Attn: Mr. Chuck Boyle  
Phone: (704)676-0778

Solid results are reported on a dry weight basis

Pace Sample No:	921267860	Date Collected:	10/16/00	Matrix:	Soil
Client Sample ID:	HA1	Date Received:	10/16/00		
<hr/>					
Parameters	Results	Units	PRL	App. DF	Analyzed
					Analyst
				CAS#	Footnotes
<hr/>					
Metals					
Metals, Trace ICP		Method: EPA 6010		Prep Method: EPA 3050	
Lead	170	mg/kg	0.58	10/19/00	RWF 7439-92-1
Date Digested				10/18/00	
Set Chemistry					
Percent Moisture		Method: % Moisture		Prep Method:	
Percent Moisture	5.9	%	0.94	10/16/00	MLH

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

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VA Drinking Water 213

DATE: 10/20/00

PAGE: 2

Pace Project Number: 9217809

Client Project ID: Lead

Pace Sample No:	921267878	Date Collected:	10/16/00	Matrix:	Soil
Client Sample ID:	HA2	Date Received:	10/16/00		
<hr/>					
Parameters	Results	Units	PRL	App. DF	Analyzed
					Analyst CAS#
					Footnotes
<hr/>					
Metals					
Metals, Trace ICP		Method: EPA 6010		Prep Method: EPA 3050	
Lead	58	mg/kg	0.59	10/19/00 RWF	7439-92-1
Date Digested				10/18/00	
<hr/>					
Percent Moisture		Method: % Moisture		Prep Method:	
Percent Moisture	10.4	%	0.90	10/16/00	MLH

Laboratory Certification IDs  
 NC Wastewater 12  
 NC Drinking Water 37706  
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Laboratory Certification IDs  
 KY Drinking Water 90090  
 TN UST List  
 VA Drinking Water 213

DATE: 10/20/00

PAGE: 3

Pace Project Number: 9217809

Client Project ID: Lead

---

PARAMETER FOOTNOTES

ND Not Detected

NC Not Calculable

PL Pace Reporting Limit

DF Applied Dilution Factor

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

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Laboratory Certification IDs  
KY Drinking Water 90090  
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VA Drinking Water 213

## QUALITY CONTROL DATA

DATE: 10/20/00

PAGE: 4

Boyle Consulting Engineers  
10 Tyvola Rd.  
Suite 126  
Charlotte, NC 28217

Pace Project Number: 9217809

Client Project ID: Lead

Attn: Mr. Chuck Boyle  
Phone: (704)676-0778

Batch ID: 33171  
Analysis Method: % Moisture  
Associated Pace Samples:

QC Batch Method:  
Analysis Description: Percent Moisture

921267860 921267878

AMPLE DUPLICATE: 921267902

Parameter	Units	Dup.	Result	RPD	Footnotes
Percent Moisture	%	-----	1.800	1.700	6

Laboratory Certification IDs  
NC Wastewater 12  
NC Drinking Water 37706  
SC 99006

**REPORT OF LABORATORY ANALYSIS**

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Laboratory Certification IDs  
KY Drinking Water 90090  
TN UST List  
VA Drinking Water 213

**QUALITY CONTROL DATA**

DATE: 10/20/00

PAGE: 5

Boyle Consulting Engineers  
 10 Tyvola Rd.  
 Suite 126  
 Charlotte, NC 28217

Pace Project Number: 9217809  
 Client Project ID: Lead

Attn: Mr. Chuck Boyle  
 phone: (704)676-0778

Batch ID: 33264                            QC Batch Method: EPA 3050  
 Analysis Method: EPA 6010                 Analysis Description: Metals, Trace ICP  
 Associated Pace Samples: 921267860    921267878

THOD BLANK: 921271227  
 Associated Pace Samples:

	921267860	921267878	Method	
Parameter	Units	Result	PRL	Footnotes
Lead	mg/kg	ND	0.5	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 921271235 921271243      Matrix      Matrix      Spike

	921267258	Conc.	Spike	Matrix	Sp. Dup.	Dup			
Parameter	Units	Result	Spike	Sp. Dup.	% Rec	% Rec	RPD	Footnotes	
Lead	mg/kg	21.89	27.07	52.42	113	37.95	58.1	64	1.2

LABORATORY CONTROL SAMPLE: 921271268

	921267258	Conc.	LCS	Spike
Parameter	Units	Result	% Rec	Footnotes
Lead	mg/kg	25	21.90	87.6

SAMPLE DUPLICATE: 921271250

	921267266	Dup.		
Parameter	Units	Result	RPD	Footnotes
Lead	mg/kg	29.00	25.00	13

Laboratory Certification IDs  
 NC Wastewater 12  
 NC Drinking Water 37706  
 SC 99006

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PAGE: 6

Pace Project Number: 9217809

Client Project ID: Lead

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**QUALITY CONTROL DATA PARAMETER FOOTNOTES**

Consistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

Not Detected

Not Calculable

Pace Reporting Limit

Relative Percent Difference

The spike recovery was outside acceptance limits for the MS and /or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

The calculated RPD was outside QC acceptance limits.

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NC Drinking Water 37706  
SC 99006

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558573

Required Client Information: <b>Section A</b>		Required Client Information: <b>Section B</b>		Page: _____ of _____		To Be Completed by Pace Analytical and Client		<b>Section C</b>																					
Company <i>Pace Consulting F...</i>	Report To: <i>Client</i>	Address <i>116 E. 1st St. 1.106</i>	Invoice To: <i>Client</i>	Client Information (Check quote/contract): Requested Due Date: _____ TAT: _____		Quote Reference:																							
	P.O. <i>116 E. 1st St. 1.106</i>		Project Name: <i>Project Name</i>	<ul style="list-style-type: none"> <li>Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.</li> </ul>		Project Manager:		<i>17809</i>																					
Phone <i>(301) 676-0778</i>	Fax <i>(301) 676-0556</i>	Project Number: <i>Project Number</i>		Turn Around Time (TAT) in calendar days.		Project #: <i>17809</i>		Profile #: <i>17809</i>																					
ITEM #	Section D Required Client Information: <b>SAMPLE ID</b> One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE		Valid Matrix Codes <table border="1"> <tr><th>MATRIX</th><th>CODE</th></tr> <tr><td>WATER</td><td>WT</td></tr> <tr><td>SOIL</td><td>SL</td></tr> <tr><td>OIL</td><td>OL</td></tr> <tr><td>WIPE</td><td>WP</td></tr> <tr><td>AIR</td><td>AR</td></tr> <tr><td>TISSUE</td><td>TS</td></tr> <tr><td>OTHER</td><td>OT</td></tr> </table>		MATRIX	CODE	WATER	WT	SOIL	SL	OIL	OL	WIPE	WP	AIR	AR	TISSUE	TS	OTHER	OT	MATRIX CODE	DATE COLLECTED mm / dd / yy	TIME COLLECTED hh:mm a/p	Preservatives					Remarks / Lab ID
	MATRIX	CODE																											
WATER	WT																												
SOIL	SL																												
OIL	OL																												
WIPE	WP																												
AIR	AR																												
TISSUE	TS																												
OTHER	OT																												
# Containers	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> SO <sub>3</sub>																							
1	H A 1					SL	10-16-00	11:15	L								1267860												
2	H A 1 2																1267878												
3	SFT																												
4	Rock																												
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													
Sample Condition		Sample Notes		Item No.	Relinquished By / Company		Date	Time	Accepted By / Company		Date	Time																	
Temp in °C:	0.0			<i>Mark D. Polomski</i>		10/16	10:00	<i>Budget-Harrison Park</i>		10/16	2:00																		
Received on ICE:	Y / N																												
Sealed Cooler:	Y / N																												
Samples Intact:	Y / N																												

**Additional Comments:**

**SAMPLER NAME AND SIGNATURE**

**PRINT Name of SAMPLER:**

*Mack D. Pichinette*

SIGNATURE of SAMPLER:  DATE Signed: (MM / DD / YY)

*Mark D. Roberts*

10-11-06

Pace Analytical Services, Inc. Form COC01 02/00

**SEE REVERSE SIDE FOR INSTRUCTIONS**